

RANDOX
BIOSCIENCES

Discovery | Drug Development | Diagnostics

PRODUCT LIST



CE

POLYCLONAL ANTIBODIES	4
DRUGS OF ABUSE	5
• Alcohol	
• Analgesics	
• Antidepressants	
• Barbiturates	
• Benzodiazepines	
• Hallucinogens	
• Opiates	
• Sedatives	
• Stimulants	
• Synthetic Drugs	
• Therapeutic Drugs	
• General	
DRUG RESIDUES	8
• Anti-inflammatory Drugs	
• Antimicrobial Drugs	
• Anti-parasitic Drugs	
• Growth Promoters	
• Mycotoxins	
BIOCHEMICAL MARKERS	14
MONOCLONAL ANTIBODIES	16
DRUGS OF ABUSE	17
• Alcohol	
• Antidepressants	
• Barbiturates	
• Hallucinogens	
• Opiates	
• Stimulants	
DRUG RESIDUES	17
• Anti-Inflammatory Drugs	
• Antimicrobial Drugs	
• Growth Promoters	
BIOCHEMICAL MARKERS	18
RECOMBINANT ANTIBODY FRAGMENTS	20
HUMAN RECOMBINANT PROTEINS	22
FROZEN HUMAN PLASMA	26
BUFFERS AND DILUENTS	26
CUSTOM DEVELOPMENT SERVICE	27

OUR COMPANY, CAPABILITIES & COMMITMENTS

OUR COMPANY

Randox Biosciences is part of Randox Laboratories and is dedicated to advancing scientific discovery, drug development and diagnostics. Spanning four key divisions; Life Sciences, Pharma Sciences, Research and Molecular; Randox Biosciences offers complete tailored solutions for clinical and research use.

From initial cultivation of raw materials for assay development, through to providing companion diagnostics, custom and molecular based assays across a range of therapeutic areas; Randox Biosciences is a trusted partner supplying quality diagnostic solutions to the clinical, life science, pharmaceutical, research and biopharma industries.

OUR CAPABILITIES

Randox Biosciences have been developing and manufacturing antibodies, proteins and conjugates for over 30 years for use in Randox Laboratories diagnostic kits including our patented Biochip Array Technology and ELISA testing kits.

A custom development service is also available for all raw materials for biopharmaceutical and diagnostic industries. Our custom services include polyclonal and monoclonal development as well as our recombinant antibody fragments (sdAb, scFv, Fab).

OUR COMMITMENTS

At Randox Biosciences it is our commitment to provide every customer with the best quality antibodies and human recombinant proteins. We are confident in our award winning products which are represented across 145 countries around the world and are internationally recognised with ISO 13485 accreditation.

POLYCLONAL ANTIBODIES

Randox Biosciences offer over 800 primary antibody products against biochemical markers, drugs of abuse and drug residues for use in both research and pharmaceutical development. All of our polyclonal antibodies are produced in sheep towards human and drug specific targets resulting in highly specific and sensitive antibodies suitable for a wide range of applications. Each year we produce thousands of litres of antisera for use in Randox diagnostic assays and as raw material for other research and development applications.

Quality control is at the forefront of manufacturing of our antibodies which are under controlled conditions, undergoing rigorous quality control testing to ensure lot-to-lot consistency and a high standard of performance in a variety of applications.

Our Polyclonal antibodies are available in pack sizes of 100µl and 1ml increments, with a select number available in 500µg affinity purified. Additionally, matching HRP conjugates are available for all small molecule antibodies.

OUR POLYCLONAL ANTIBODIES OFFER THE FOLLOWING FEATURES & BENEFITS



EXCELLENT SENSITIVITY	Small volumes of our antibody is required to produce quality assays resulting in a lower cost per test.
HIGH CONCENTRATION	Our polyclonal antibodies have a concentration of more than 5mg/ml. This allows the end user to dilute the antibody to their requirements for various applications.
EXCELLENT SPECIFICITY	Polyclonal antibodies are less sensitive to antigen changes than monoclonal antibodies and therefore capable of detecting multiple epitopes on any one antigen. This makes them more robust and can also help to increase the signal produced by the target protein.
DETAILED CROSS REACTIVITY	The majority of our antibodies have validated data which can be provided on request.
EXCELLENT REPRODUCIBILITY BETWEEN LOT NUMBERS	Using sheep as our host animal enables us to collect more serum from each lot produced, thus reducing lot-to-lot variation.

GENERAL POLYCLONAL SPECIFICATION

HOST:	Sheep
FORMAT:	Ig fraction prepared by caprylic acid and ammonium sulphate precipitation procedures
PH:	7.2
BUFFER:	20mM Phosphate, 150mM Sodium Chloride
PRESERVATIVE:	0.09% Sodium Azide
STORAGE:	Short Term: 4°C Long Term: -20°C

DRUGS OF ABUSE



ALCOHOL

Product Name	Immunogen	Cat. No
Ethyl Glucuronide*	Ethylglucuronide-BTG	PAS10108
	Ethylglucuronide-BTG	PAS9980

ANALGESICS

Salicylate	4-Amino Salicylic Acid-BTG	PAS10154
Salicylic Acid	Salicylic Acid-BTG	PAS9896

ANTIDEPRESSANTS

Desipramine	Desipramine-BTG	PAS9898
Escitalopram	Escitalopram-BTG	PAS10024
Norescitalopram	Norescitalopram-BTG	PAS10022
Norfluoxetine	Norfluoxetine-BTG	PAS10028
Norsertaline	Norsertaline-BTG	PAS10129
Trazodone*	Trazodone-BTG	PAS10008
	Trazodone-BTG	PAS10006
Tricyclic Antidepressants (TCA) 1 - Amitriptyline	Amitriptyline-BTG	PAS9434
Tricyclic Antidepressants (TCA) 2 - Desipramine	Desipramine-BTG	PAS9436
Tricyclic Antidepressants (TCA) 3 - Imipramine	Imipramine-BTG	PAS9438
Tricyclic Antidepressants (TCA) 4 - Nortriptyline	Nortriptyline-BTG	PAS9440
Venlafaxine	Venlafaxine-BTG	PAS10351

BARBITURATES

Cyclopentobarbital	Cyclopentobarbital-BTG	PAS9222
--------------------	------------------------	---------

BARBITURATES CONTINUED

Product Name	Immunogen	Cat. No
Phenobarbital	Phenobarbital-BTG	PAS10355
Phenobarbital (m/p)	Phenobarbital (m/p)-BSA	PAS9568
Phenobarbital (N)	Phenobarbital (N)-BSA	PAS9569
Secobarbital*	Secobarbital-BSA	PAS9578
	Secobarbital-BTG	PAS9221

BENZODIAZEPINES

Aminoflunitrazepam	7-Aminoflunitrazepam-BTG	PAS10158
Diazepam/Nordiazepam	Nordiazepam-BSA	PAS9554
Lorazepam*	Lorazepam-BSA	PAS9534
	Lorazepam-BSA/KLH	PAS10221
Nitrazepam*	Nitrazepam-BSA	PAS10020
	Nitrazepam-BSA	PAS9612
Oxazepam*	Oxazepam-BSA/KLH	PAS10205
	Oxazepam-BTG	PAS10083
	Oxazepam-BTG	PAS10002
	Oxazepam-BTG	PAS10004
Oxazepam(3)	Oxazepam-3-BSA	PAS9560
Oxazepam(N)	Oxazepam-N-BSA	PAS9559
Temazepam	Temazepam-BSA	PAS9592

HALLUCINOGENS

Carboxymethyl LSD	N-Carboxymethyl LSD-BTG	PAS10085
Dehydronorketamine	Dehydronorketamine-BTG	PAS10156
Demethyl Salvinorin	Demethyl Salvinorin-BSA	PAS10077

HALLUCINOGENS CONTINUED

Product Name	Immunogen	Cat. No
Dextromethorphan	Dextromethorphan-BTG	PAS10135
EPI-Demethyl Salvinorin	Epi-demethyl Salvinorin-BTG	PAS10141
Ketamine*	Ketamine-BTG	PAS10164
	Ketamine-BSA	PAS10329
Lysergic Acid Diethylamide (LSD)	LSD-BSA	PAS9535
Lysergic Acid Diethylamide/ Nor-Lysergic Acid Diethylamide (LSD)	LSD-BSA	PAS9536
Mescaline	Mescaline-BTG	PAS9998
Phencyclidine (Cyclohexyl,4)	PCP(cyclohexyl-4)-BSA	PAS9566
Phencyclidine (m/p)	PCP(m/p)-BSA	PAS9565
Phencyclidine (m/p)-linker	PCP(m/p)-linker-BSA	PAS9564
Phencyclidine (piperidyl,4)	PCP(piperidyl-4)-BSA	PAS9563
Salvinorin	Salvinorin-BTG	PAS9992
Tetrahydrocannabinol (THC)*	D8-THC-COOH-BSA	PAS9600
	D9-THC-COOH-BSA	PAS9599
	THC-BSA	PAS9601

OPIATES CONTINUED

Product Name	Immunogen	Cat. No
Hydrocodone	Hydrocodone-BTG	PAS9640
Hydromorphone	Hydromorphone-BTG	PAS9621
Levo-Alpha-Acetylmethadol (LAAM)	LAAM-BSA	PAS9532
Meperidine	Meperidine-BTG	PAS9276
Methadone	Methadone-BSA	PAS9541
Methadone(p)	Methadone-p-BSA	PAS9540
Methadone/Methadol	Methadol-BSA	PAS9542
Morphine (3)	Morphine-BSA	PAS9550
Morphine(6)	Morphine-BSA	PAS9551
Morphine-6-Hemisuccinate	Morphine-6-Hemisuccinate-BTG	PAS10125
Meperidine/Normeperidine	Meperidine-BTG	PAS9859
Naltrexone	Naltrexone-BTG	PAS10012
Norfentanyl*	Norfentanyl-BTG	PAS10073
	Norfentanyl-BTG	PAS10203
Oxycodone (6)	Oxycodone-BSA	PAS9561
Oxycodone (N)	Oxycodone-BSA	PAS9562
Propoxyphene	Propoxyphene-BSA	PAS9572
Propoxyphene/Norpropoxyphene	Propoxyphene-BSA	PAS9571
Salvinorin	Salvinorin-BTG	PAS9992
Tramadol*	Desmethyltramadol-3-BTG	PAS9277
	Desmethyltramadol-BTG	PAS9278

OPIATES

Buprenorphine	Buprenorphine-BSA	PAS9509
Buprenorphine/Norbuprenorphine	Norbuprenorphine-BTG	PAS9841
Fentanyl*	Fentanyl-BSA	PAS9525
	Fentanyl-BTG	PAS10249
Fentanyl/Despropionyl Fentanyl	Fentanyl-BSA	PAS9526
Codeine	Codeine-BSA	PAS9516
Heroin	Heroin-BTG	PAS10133

SEDATIVES

Product Name	Immunogen	Cat. No
Acepromazine	Acepromazine-BTG	PAS10042
Azaperone	Azaperone-BTG	PAS10143
Chlorpromazine	Chlorpromazine-BTG	PAS10018
Haloperidol*	Haloperidol-BTG	PAS10201
	Haloperidol-BTG	PAS10127
Lidocaine*	Lidocaine-BTG	PAS10179
	Lidocaine-BTG	PAS10239
Meprobamate	Meprobamate-BTG	PAS10016
Methaqualone*	Methaqualone-BSA	PAS9546
	Methaqualone-BSA	PAS9547
	Methaqualone-BSA	PAS9548
Urochloralic Acid	Urochloralic Acid-BTG	PAS10071
Zaleplon	Zaleplon-BTG	PAS10000
Zolpidem	Zolpidem-BTG	PAS10110
Zopiclone	Zopiclone-BTG/BSA	PAS10112

STIMULANTS

3,4-Methylenedioxymethamphetamine (MDMA)	MDMA-BSA	PAS9537
Amphetamine*	Amphetamine-BSA	PAS9501
	Amphetamine-BTG	PAS10040
Cocaine*	Cocaine-BSA	PAS9515
	Cocaine-BTG	PAS10175
Cocaine/Benzoyllecgonine*	Benzoyllecgonine (COOH)-BSA	PAS9502
	Benzoyllecgonine (COOH)-linker-BSA	PAS9503

STIMULANTS CONTINUED

Product Name	Immunogen	Cat. No
MDMA	MDMA-BTG	PAS10241
Meperidine/Normeperidine	Meperidine-BTG	PAS9859
Methamphetamine*	Methamphetamine-BTG	PAS10396
	Methamphetamine-BTG	PAS10038
Methamphetamine-N	Methamphetamine-BSA	PAS9544
Methamphetamine-P	Methamphetamine-BSA	PAS9543
Methamphetamine-p-NH2	Methamphetamine-BSA	PAS9545
Methylphenidate*	Methylphenidate-BTG	PAS10251
	Methylphenidate-BTG	PAS10114

SYNTHETIC DRUGS

JWH-018 (SPICE)*	JWH-018-BTG	PAS10171
	JWH-018-BTG	PAS10173
MDPV	MDPV-BSA/BTG	PAS10349
Mescaline	Mescaline-BTG	PAS9998
Methcathinone	Methcathinone-BSA	PAS10191

THERAPEUTIC DRUGS

Carbamazepine *	Carbamazepine-BTG	PAS10122
	Carbamazepine-BTG	PAS10131
Dehydronorketamine	Dehydronorketamine-BTG	PAS10156
Digoxigenin	Digoxigenin-BTG	PAS9916
Digoxin	Digoxin-BTG	PAS10044
Methotrexate	Methotrexate-BSA	PAS10030
Mycophenolic Acid*	Mycophenolic Acid-BTG	PAS9876
	Mycophenolic Acid-BTG	PAS9918

THERAPEUTIC DRUGS CONTINUED

Product Name	Immunogen	Cat. No
Phenytoin	Phenytoin-BTG	PAS9890
Procainamide	Procainamide-BSA	PAS10262
Quinidine	Quinidine-BTG	PAS10353
Salinomycin*	Salinomycin-BTG	PAS10199
	Salinomycin-BTG	PAS10167
Theophylline	Theophylline-BTG	PAS10197
Warfarin	Warfarin-BTG	PAS10223

GENERAL

Cotinine	Cotinine-BTG	PAS10081
Creatinine	Creatinine-BSA	PAS9517
Creatinine Acid	Creatinine-BTG	PAS10079
Hydroxyindole Acetic Acid	5-Hydroxyindole Acetic Acid-BTG	PAS10075



DRUG RESIDUES

ANTI-INFLAMMATORY DRUGS

NSAIDs

Product Name	Immunogen	Cat. No
Dapsone	Dapsone-BTG	PAS9842
Desmethylnaproxen	Desmethylnaproxen-BTG	PAS10137
Dipyron*	Dipyron-BTG	PAS9281
	Aminoantipyrine-BTG	PAS9634
Etodolac	Etodolac-BTG	PAS9638
Flunixin*	Flunixin(COOH)-BTG	PAS9528
	Flunixin-BTG	PAS10010
Ibuprofen	Ibuprofen-BTG	PAS10331
Kebuzone	Kebuzone-BTG	PAS9232
Ketoprofen	Ketoprofen-BTG	PAS9622
Meloxicam	Meloxicam-BTG	PAS9442
Methylprednisolone	Methylprednisolone-BTG	PAS9444
Naproxen	Naproxen-BTG	PAS9446
Phenylbutazone/Oxyphenbutazone	Oxyphenbutazone-BTG	PAS9282
Tolfenamic Acid	Tolfenamic Acid-BTG	PAS9843

ANTIMICROBIAL DRUGS

AMINOGLYCOSIDES

Amikacin	Amikacin-BTG	PAS9914
Apramycin*	Apramycin-BTG	PAS9448
	Apramycin-BTG	PAS10347
	Apramycin-BTG	PAS9626

AMINOGLYCOSIDES CONTINUED

Product Name	Immunogen	Cat. No
Avilamycin	Avilamycin-BTG	PAS10227
Flavomycin	Flavomycin-BTG	PAS10267
Gentamycin*	Gentamycin-BSA	PAS10235
	Gentamycin-BTG	PAS9230
Hygromycin B	Hygromycin B-BTG	PAS10333
Kanamycin	Kanamycin-BTG	PAS9531
Neomycin	Neomycin-BTG	PAS9553
Pirlimycin	Pirlimycin-BTG	PAS9844
Spectinomycin	Spectinomycin-BSA	PAS10177
Spiramycin	Spiramycin-BTG	PAS9231
Streptomycin*	Streptomycin-KLH	PAS10435
	Streptomycin-BTG	PAS10014
Tobramycin	Tobramycin-BSA	PAS9603

β-LACTAMS

Amoxycillin, Ampicillin and Penicillin	Ampicillin-BTG	PAS9567
Dicloxacillin	Dicloxacillin-BSA	PAS10215
Penicillin	Ampicillin-BTG	PAS10337

CARBADOX/QCA

Carbadox	Carbadox-BTG	PAS9628
Olaquinox	Olaquinox-BSA	PAS10181
	Olaquinox-BTG	PAS10169

CEPHALOSPORINS

Ceftiofur/Desfuroylceftiofur	Ceftiofur-BSA	PAS9510
------------------------------	---------------	---------

CEPHALOSPORINS CONTINUED

Product Name	Immunogen	Cat. No
Cephalexin	Cephalexin-BTG	PAS10309

DYES

Leucomalachite Green	Leucomalachite Green-BTG	PAS9533
----------------------	--------------------------	---------

IMIDAZOLES

Ronidazole*	Ronidazole-BTG	PAS9225
	Ronidazole-KLH	PAS10345

MACROLIDES

Desmycosin	Desmycosin-BTG	PAS10335
Erythromycin	Erythromycin-BSA/BTG	PAS10211
Sirolimus	Sirolimus-BTG	PAS10255
Tacrolimus 22	Tacrolimus(22)-BTG	PAS9872
Tacrolimus 32	Tacrolimus(32)-BTG	PAS9874
Tylosin/Tilmicosin	Tylosin-BSA	PAS9607

NITROFURANS

4-Nitrophenyl-AHD	AHD-BSA	PAS9228
4-Nitrophenyl-AMOZ	AMOZ-BTG	PAS9996
4-Nitrophenyl-AOZ	AOZ-BTG	PAS9994
4-Nitrophenyl-SEM	SEM-BTG	PAS9229

PHENICOLS

Chloramphenicol*	Chloramphenicol-BTG	PAS9511
	Chloramphenicol-BTG	PAS10032
Florfenicol	Florfenicol-BTG	PAS9845
Thiamphenicol/Florfenicol	Thiamphenicol-BTG	PAS9602

POLYPEPTIDES

Product Name	Immunogen	Cat. No
Bacitracin	Bacitracin-BTG	PAS9223

PYRIMIDINES

Ormetoprim	Ormetoprim-BTG	PAS9450
Trimethoprim	Trimethoprim-BTG	PAS9224

QUINOLONES

Flumequine	Flumequine-BTG	PAS9227
Fluoroquinolones	Norfloxacin-BSA	PAS9555
Nalidixic Acid	Nalidixic Acid-BTG	PAS9279
Norfloxacin	Norfloxacin-BTG	PAS9226
Oxolinic Acid	Oxolinic Acid-BTG	PAS9280

STREPOGRAMINS

Virginiamycin	Virginiamycin M-BSA	PAS9608
---------------	---------------------	---------

SULPHONAMIDES

Sulphabenzamide	Sulfabenzamide-BTG	PAS9846
Sulphachlorpyridazine	Sulphachlorpyridazine-BSA	PAS9580
Sulphadiazine	Sulphadiazine-HSA	PAS9581
Sulphadimethoxine	Sulphadimethoxine-HSA	PAS9582
Sulphadoxine	Sulphadoxine-HSA	PAS9583
Sulphaguanidine*	Sulguanidine-BSA	PAS9585
	Sulguanidine-HSA	PAS9584
Sulphamerazine*	Sulphamerazine-BTG	PAS9586
	Sulphamerazine-HSA	PAS9587
Sulphamethazine	Sulphamethazine-HSA	PAS9588

SULPHONAMIDES CONTINUED

Product Name	Immunogen	Cat. No
Sulphanilamide	Sulphanilamide-HSA	PAS9589
Sulphanitran	Sulphanitran-BTG	PAS9861
Sulphaphenazole	Sulphaphenazole-BTG	PAS9863
Sulphapyridine	Sulphapyridine-HSA	PAS9613
Sulphaquinoxaline	Sulphachloropyridazine-BSA	PAS9590
Sulphathiazole	Sulphathiazole-BSA	PAS9591
Sulphatroxazole	Sulphatroxazole-BTG	PAS9888

TETRACYCLINES

Tetracycline*	Tetracycline-BTG	PAS9597
	Tet(N-4) BTG	PAS9596
Tetracycline Amide	Tetracycline Amide-BTG	PAS9598

ANTI-PARASITIC DRUGS

ANTHELMINTICS

2-Amino-5-Benzimidazole	2-Amino-5-Benzimidazole-BTG	PAS9847
Albendazole*	Albendazole-BTG	PAS9618
	Albendazole-BSA/BTG	PAS10218
	Albendazole-BTG	PAS9257
Benzimidazole	Benzimidazole-BTG	PAS9892
Closantel	Closantel-BTG	PAS10231
Ivermectin	Ivermectin-BTG	PAS9900
Thiabendazole*	Thiabendazole-BTG	PAS9283
	Thiabendazole-BSA/BTG	PAS10193
Triclabendazole	Triclabendazole-BTG	PAS9452

COCCIDIOSTATS

Product Name	Immunogen	Cat. No
Decoquinate	Decoquinate-BSA	PAS10195
Diclazuril	Diclazuril-BTG	PAS9631
Dinitrosalicylic Acid Hydrazide (DNSH)*	Dinitrosalicylic Acid-BTG	PAS9454
	DNSH-BTG	PAS9969
Halofuginone*	Halofuginone-BTG	PAS10237
	Halofuginone-BSA	PAS10327
Lasalocid	Lasalocid A-BTG	PAS9284
Maduramicin*	Maduramicin-BSA	PAS9623
	Maduramicin-BSA	PAS9624
	Maduramicin-BSA	PAS10209
Monensin	Monensin Sodium Salt-BTG	PAS9285
Nicarbazin*	Nicarbazin-BTG	PAS9286
	Nitrobenzene-BTG	PAS9287
Robenidine	Robenidine-BTG	PAS10217
Salinomycin*	Salinomycin-BTG	PAS10199
	Salinomycin-BTG	PAS10167
Toltrazuril*	Toltrazuril-BTG	PAS9456
	Toltrazuril-BTG	PAS9894

GROWTH PROMOTERS

β-AGONISTS

Carazolol	Carazolol-BTG	PAS10245
Cimaterol*	Cimaterol-BSA	PAS9848
	Cimaterol-BSA	PAS9629

β-AGONISTS CONTINUED

Product Name	Immunogen	Cat. No
Clenbuterol	Clenbuterol-BSA	PAS9514
Isoxsuprine	Isoxsuprine(p-OH)-BTG	PAS9530
Ractopamine*	Ractopamine-BSA	PAS9573
	Ractopamine-BSA	PAS9574
Ritodrine	Ritodrine-BSA	PAS9288
Salbutamol*	Salbutamol-BTG	PAS9576
	Salbutamol-HSA	PAS9577
Salmeterol	Salmeterol-BTG	PAS9458
Zilpaterol	Zilpaterol-BSA	PAS9289

CORTICOSTEROIDS

Cortisol	Cortisol-BTG	PAS9630
Cortisone	Cortisone-BTG	PAS9886
Dexamethasone	Dexamethasone-BTG	PAS9519
Flumethasone	Flumethasone-HSA	PAS9527
Prednisolone	Prednisolone-BTG	PAS10257
Triamcinolone	Triamcinolone-BTG	PAS10247
Triamcinolone Acetonide	Triamcinolone Acetonide-BTG	PAS10139

NATURAL STEROIDS

17α-Estradiol	17α-Estradiol-BTG	PAS9246
17α-Hydroxyprogesterone *	17α-OH-Progesterone-BTG	PAS9883
	17α Hydroxyprogesterone-BTG	PAS9912
	17α Hydroxyprogesterone-BTG	PAS9976
17α-Testosterone*	17α Testosterone-BTG	PAS9248
	Testosterone-BTG	PAS9616

NATURAL STEROIDS CONTINUED

Product Name	Immunogen	Cat. No
17 β -Estradiol*	17 β -Estradiol-BSA	PAS9614
	Estradiol-long linker-BSA	PAS9523
	Estradiol-short linker-BSA	PAS9524
17 β -Testosterone*	17 β Testosterone-BTG	PAS9247
	Testosterone-long spacer-BSA	PAS9593
	Testosterone-BSA	PAS9594
	Testosterone-BTG	PAS9617
Alpha Testosterone	Testosterone-BTG	PAS9619
Androstenedione*	Androstenedione-BTG	PAS9853
	Androstenedione-BTG	PAS9620
	Androstenedione-BTG	PAS9978
Dehydroepiandrosterone (DHEA)	DHEA-BTG	PAS10233
Dehydroepiandrosterone (DHEA-17)	DHEA(17)-BTG	PAS9520
Dehydroepiandrosterone Sulphate (DHEA-S)	DHEA-S(17)-BTG	PAS9855
Dihydrotestosterone	Dihydrotestosterone-BTG	PAS9632
Epiandrosterone*	Epiandrosterone -BTG	PAS9635
	Epi-testosterone-BTG	PAS10213
Estriol (6)	Estriol (6)-BTG	PAS9462
Estriol (6a)	Estriol (6a)-BTG	PAS9460
Estriol*	Estriol-BTG	PAS9881
	Estriol-BTG	PAS10034
	Estriol-BTG	PAS9637

NATURAL STEROIDS CONTINUED

Product Name	Immunogen	Cat. No
Gestrinone	Gestrinone-BTG	PAS9878
Progesterone	Progesterone-BTG	PAS9249
	Progesterone-BSA	PAS9570
Testosterone	Testosterone-BSA	PAS9595

RESORCYCLIC ACID LACTONE

Zeranol*	B-Zearanol-BTG	PAS9982
	Zeranol-BTG	PAS9609
	Zeranol-HSA	PAS9610
	Zearalanone-BTG	PAS9464

STILBENES

Dienestrol(p-OH)	Dienestrol (p-OH)-BTG	PAS9234
Dienestrol(p-OH)-KLH	Dienestrol(p-OH)-KLH	PAS9521
Diethylstilbestrol	Diethylstilbestrol-BTG	PAS10160
Diethylstilbestrol(p-OH)*	DES(p-OH)-KLH	PAS9522
	Diethylstilbestrol (p-OH)-BTG	PAS9233
Hexestrol*	Hexestrol(p-OH)-HSA	PAS9529

SYNTHETIC ANDROGENS

4-Androsten-4-Chloro-3,17-Dione (CLAD)	CLAD-BTG	PAS9238
17 α -Boldenone	17 α -Boldenone-BTG	PAS9507
17 α -Methyldihydrotestosterone	17 α -Methyldihydrotestosterone-BSA	PAS9549
17 α -Nortestosterone	17 α -Nortestosterone-BTG	PAS9556

SYNTHETIC ANDROGENS CONTINUED

Product Name	Immunogen	Cat. No
17 α -Trenbolone	17 α -Trenbolone-BTG	PAS9604
17 β -Boldenone	17 β -Boldenone-BTG	PAS9508
17 β -Nortestosterone	17 β -Nortestosterone-BTG	PAS9557
17 β -Trenbolone	17 β -Trenbolone-BTG	PAS9605
	17 β -Trenbolone-HSA	PAS9606
Nortestosterone	Nortestosterone-BSA	PAS9558
Boldenone*	Boldenone-BSA	PAS9505
	Boldenone-BTG	PAS9506
Boldenone	Boldenone-BTG	PAS9627
Clostebol	Clostebol-BTG	PAS9240
Clostebol/4-Androsten-4-Chloro-3,17-Dione (CLAD)	CLAD-BTG	PAS9239
Dehydromethyltestosterone	Dehydromethyltestosterone-BTG	PAS9235
Mestanolone	Mestanolone-BTG	PAS9466
Methandriol	Methandriol-BTG	PAS9236
Methylboldenone/ Methyltestosterone	17 β -Methylboldenone-BTG	PAS9241
Methylprednisolone	Methylprednisolone-BTG	PAS9444
Methyltestosterone	Methyltestosterone-BTG	PAS9237
Stanozolol*	Stanozolol-BSA	PAS9611
	Stanozolol-BTG	PAS10036

SYNTHETIC ESTROGENS

Ethinylestradiol*	Ethinylestradiol-BTG	PAS9244
	Ethinylestradiol-BTG	PAS9245

SYNTHETIC GESTAGENS

Product Name	Immunogen	Cat. No
Chlormadinone Acetate	Chlormadinone Acetate-BTG	PAS9513
Medroxyprogesterone Acetate	Medroxyprogesterone Acetate-BTG	PAS9538
Megestrol*	Megestrol-BTG	PAS9242
	Megestrol-BTG	PAS9625
Megestrol Acetate	Megestrol Acetate-BTG	PAS9539
Melengestrol Acetate	Melengestrol Acetate-BTG	PAS9243

MYCOTOXINS

3-Acetyl-DON	3-Acetyl-DON-KLH	PAS10382
Deoxynivalenol	Deoxynivalenol-BTG	PAS10380
Ergot Alkaloids*	Ergot Alkaloids-BTG	PAS10378
	Ergot Alkaloids-BTG	PAS10376
Fumonisin	Fumonisin-KLH	PAS10386
Ochratoxin A	Ochratoxin A-KLH	PAS10374
Zearalenone	Zearalenone-BTG	PAS10384

BIOCHEMICAL MARKERS



Product Name	Immunogen	Cat. No
A Disintegrin and Metalloproteinase Domain 12S Isoform (ADAM 12S)	rHu ADAM 12S	PAS9486
Carbonic Anhydrase III (CA III) (Muscle)	rHu CAIII	PAS9311
Cyclic Amp	Cyclic AMP-BSA	PAS9518
Cyclin-Dependent Kinase 4 (CDK4)	rHu CDK4	PAS9323
Cystatin C	rHu Cystatin C	PAS10089
Cytokeratin-18 (CK18)	rHu CK18	PAS9329
E-Selectin	rHu E-Selectin	PAS9213
Eotaxin	rHu Eotaxin	PAS9378
Fatty Acid Binding Protein (Adipocyte)	rHu FABP-A	PAS10145
Fatty Acid Binding Protein (Brain)	rHu FABP-B	PAS9483
Fatty Acid Binding Protein (Heart)	rHu FABP-H	PAS9308
Fatty Acid Binding Protein (Intestinal)	rHu FABP-I	PAS10095
Fatty Acid Binding Protein (Liver)	rHu FABP-L	PAS10188
Fatty Acid Binding Protein (Myelin)	rHu FABP-M	PAS10093
Fractalkine	rHu Fractalkine	PAS10087
Granulocyte Macrophage Colony Stimulating Factor (GM-CSF)	rHu GM-CSF	PAS9382
Hepatocyte Growth Factor A	rHu HGF-A	PAS10147
Human Apolipoprotein AI	rHu Apolipoprotein AI	PAS10101
Human Apolipoprotein B	rHu Apolipoprotein B	PAS10099
Human C-Reactive Protein	rHu CRP	PAS10103
Human Epidermal Growth Factor (EGF)	HEGF-BSA	PAS9615
Human Transferrin	rHu Transferrin	PAS10105

Product Name	Immunogen	Cat. No
IgA (Human)	rHu IgA	PAS10107
IgG (Human)	rHu IgG	PAS9984
Inducible Protein 10 (IP-10)	rHu IP-10	PAS9379
Inhibin Alpha	rHu Inhibin Alpha	PAS9468
Inhibin Beta A	rHu Inhibin Beta A	PAS9471
Intercellular Adhesion Molecule 1 (ICAM-1)	rHu ICAM-1	PAS9212
Interferon Gamma (IFNg)	rHu IFNg	PAS9373
Interleukin 1 Alpha (IL-1a)	rHu IL-1a	PAS9215
Interleukin 1 Beta (IL-1b)	rHu IL-1b	PAS9216
Interleukin 1 Receptor Antagonist (IL-1Ra)	rHu IL-1Ra	PAS9375
Interleukin 2 (IL-2)	rHu IL-2	PAS9208
Interleukin 2 Receptor Alpha (IL-2RA)	rHu IL-2RA	PAS9492
Interleukin 3 (IL-3)	rHu IL-3	PAS9219
Interleukin 4 (IL-4)	rHu IL-4	PAS9209
Interleukin 6 Soluble Receptor (IL-6SR)	rHu IL-6SR	PAS9489
Interleukin 7 (IL-7)	rHu IL-7	PAS9380
Interleukin 8 (IL-8)	rHu IL-8	PAS9217
Interleukin 10 (IL-10)	rHu IL-10	PAS9371
Interleukin-12p35 (IL12p35)	rHu IL-12p35	PAS9210
Interleukin-12p40 (IL12p40)	rHu IL-12p40	PAS9211
Interleukin 13 (IL-13)	rHu IL-13	PAS9218
	rHu IL-13	PAS9474
Interleukin 15 (IL-15)	rHu IL15	PAS9203

Product Name	Immunogen	Cat. No
LP-PLA2	LP-PLA2	PAS10149
L-Selectin	rHu L-Selectin	PAS9214
Macrophage Inflammatory Protein I ALPHA (MIP-1a)	rHu MIP-1a	PAS9202
Matrix Metalloproteinase 9 (MMP-9)	rHu MMP-9	PAS9495
Monocyte Chemoattractant Protein 1 (MCP-1)	rHu MCP-1	PAS9390
Myoglobin (Human)	rHu Myoglobin	PAS9552
Neuronal Specific Enolase (NSE)	rHu NSE	PAS9201
Neutrophil Gelatinase Associate Lipocalin (NGAL)	rHu NGAL	PAS9332
Plasminogen Activator Inhibitor 1 (PAI-1)	rHu PAI-1	PAS9389
Platelet-Derived Growth Factor A Chain (PDGF-A)	rHu PDGF-A	PAS9204
Platelet-Derived Growth Factor B Chain (PDGF-B)	rHu PDGF-B	PAS9205
Pregnancy-Associated Plasma Protein-I (PAPP-A)	rHu PAPP-A	PAS9480
Procalcitonin (PCT)	rHu PCT	PAS9383
Rantes	rHu Rantes	PAS9376
Resistin	rHu Resistin	PAS9387
Retinol Binding Protein	rHu Retinol Binding Protein	PAS9385
S100A10	rHu S100A10	PAS9302
S100A11	rHu S100A11	PAS9305
S100B	rHu S100B	PAS9200
Serum Amyloid A (SAA, Human)	rHu SAA	PAS9575
Soluble Tumour Necrosis Factor Receptor-1 (sTNFR1)	rHu sTNFR1	PAS9835
Soluble Tumour Necrosis Factor Receptor-2 (sTNFR2)	rHu sTNFR2	PAS9838
Tissue Factor	rHu Tissue Factor	PAS10091

Product Name	Immunogen	Cat. No
Tissue Inhibitor of Metalloprotease 1 (TIMP-1)	rHu TIMP-1	PAS9477
Triggering Receptor Expressed on Myeloid Cells 1 (TREM-1)	rHu TREM-1	PAS9384
Tumor Necrosis Factor Alpha (TNFa)	rHu TNFa	PAS9372
Tumor Necrosis Factor Beta (TNFb)	rHu TNF-b	PAS9207
Tumour Type M2 Pyruvate Kinase (M2PK)	rHu M2PK	PAS9326
Vascular Cell Adhesion Molecule 1 (VCAM-1)	rHu VCAM-1	PAS9374
Vascular Endothelial Growth Factor (VEGF)	rHu VEGF	PAS9206
Vascular Endothelial Growth Factor Receptor 1 (VEGFR1)	rHu VEGFR1	PAS9381
Visfatin	rHu Visfatin	PAS9388

MONOCLONAL ANTIBODIES

Our monoclonal antibody products are also produced in sheep for use in research and commercial development. Sheep monoclonal antibodies have been shown to have higher affinities than standard mouse monoclonal antibodies and also have a much broader range of epitope recognition. Sheep monoclonal antibodies are able to bind target concentrations at very low levels as well as efficiently differentiating between closely related small molecules such as drugs of abuse and drug residues. When developing immunoassays this translates into an increased assay sensitivity and precision ultimately leading to many technical and commercial advantages.

Our Monoclonal antibodies are available in pack sizes of 100µg and 1mg increments. Additionally, matching HRP conjugates are available for all small molecule antibodies.

OUR MONOCLONAL ANTIBODIES OFFER THE FOLLOWING FEATURES & BENEFITS



EXCELLENT SENSITIVITY	Small volumes of our antibody is required to produce quality assays resulting in a lower cost per test.
EXCELLENT SPECIFICITY	As Monoclonal antibodies detect only one epitope on an antigen they are highly specific in decreasing background noise and cross-reactivity. This helps provide reproducible results and ensures efficiency in affinity purification.
DETAILED CROSS REACTIVITY	Monoclonals can also be generated to cross react with a group of molecules that have a similar overall structure with substitutions of differing atoms into the cyclic structure. This is very useful in drug detection when many possible combinations of the drug are to be tested in a patient. The majority of our antibodies have validated data which can be provided on request.
EXCELLENT REPRODUCIBILITY BETWEEN LOT NUMBERS	Using proprietary technology for sheep monoclonal antibodies we can produce immortal cell lines which means we have the same antibody performance throughout production.

GENERAL MONOCLONAL SPECIFICATION

HOST:	Sheep
FORMAT:	Purified high affinity monoclonal antibody
PH:	7.2
BUFFER:	PBS
PRESERVATIVE:	0.09% Sodium Azide
STORAGE:	2-8°C
METHOD OF PRODUCTION	In Vitro Cell Culture using standard DMEM media supplemented with foetal bovine serum of USDA approved origin
METHOD OF PURIFICATION	Protein A Affinity Chromatography

DRUGS OF ABUSE



ALCOHOL

Product Name	Immunogen	Cat. No
Ethyl Glucuronide*	ETG-BTG	MAB10259
	ETG-BTG	MAB10322
	ETG-BTG	MAB10324

ANTIDEPRESSANTS

Tricyclic Antidepressants (TCA)	Nortriptyline-BTG	MAB9960
---------------------------------	-------------------	---------

BARBITURATES

Secobarbital	Secobarbital BTG	MAB10298
--------------	------------------	----------

HALLUCINOGENS

Norketamine	Norketamine-BTG	MAB9852
	Norketamine-BTG	MAB9962
	Norketamine-BTG	MAB9964
	Norketamine-BTG	MAB9966
Tetrahydrocannabinol (THC)*	-	MAB9903
	-	MAB9905
	-	MAB9906
	-	MAB9908
	-	MAB9910

OPIATES

EDDP	EDDP-BTG	MAB10252
	EDDP-BTG	MAB9987
	EDDP-BTG	MAB10050

OPIATES CONTINUED

Product Name	Immunogen	Cat. No
EDDP	EDDP-BTG	MAB10052
	EDDP-BTG	MAB10054

STIMULANTS

Normeperidine	Normeperidine-BTG	MAB9985
	Normeperidine-BTG	MAB9989



DRUG RESIDUES

ANTI-INFLAMMATORY DRUGS

NSAIDs

Methylprednisolone*	Methylprednisolone-BTG	MAB10056
	Methylprednisolone-BTG	MAB10118
	Methylprednisolone-BTG	MAB10120

ANTIMICROBIAL DRUGS

NITROFURANS

SEM	SEM-BTG	MAB10300
-----	---------	----------

QUINOLONES

Norfloxacin*	Norfloxacin-BTG	MAB10304
	Norfloxacin-BTG	MAB10306

TETRACYCLINES

Tetracycline	Tetracycline (Amide)-BSA	MAB9258
--------------	--------------------------	---------

GROWTH PROMOTERS

β-AGONISTS

Product Name	Immunogen	Cat. No
Salbutamol*	Salbutamol-BTG	MAB9901
	Salbutamol-BTG	MAB10372
	Salbutamol-BTG	MAB9344

CORTICOSTEROIDS

Cortisol	Cortisol-BTG	MAB10292
----------	--------------	----------

NATURAL STEROIDS

17α Hydroxyprogesterone	17αOH-Progesterone-BTG	MAB10290
Dehydroepiandrosterone Sulphate (DHEA-S)	DHEAS-BTG	MAB10294
Estradiol	-	MAB9850
Progesterone*	Progesterone-BTG	MAB10296
	Progesterone-BTG	MAB10360
Testosterone	-	MAB9851

SYNTHETIC ANDROGENS

Methylprednisolone*	Methylprednisolone-BTG	MAB10056
	Methylprednisolone-BTG	MAB10118
	Methylprednisolone-BTG	MAB10120
Stilbene	Stilbene-BTG	MAB10302



BIOCHEMICAL MARKERS

Product Name	Immunogen	Cat. No
Anti-Cardiac Troponin I (Epitope I-20)	Human Native cTnI (Cardiac Troponin I)	MAB10272
Anti-Cardiac Troponin I (Epitope I-20)	Human Native cTnI (Cardiac Troponin I)	MAB10278
Anti-Cardiac Troponin I (Epitope I-20) (Detector 1)	Human Native cTnI (Cardiac Troponin I)	MAB10282
Anti-Cardiac Troponin I (Epitope 21-39)	Human Native cTnI (Cardiac Troponin I)	MAB10270
Anti-Cardiac Troponin I (Epitope 80-89) (Capture)	Human Native cTnI (Cardiac Troponin I)	MAB10276
Anti-Cardiac Troponin I (Epitope 80-89)	Human Native cTnI (Cardiac Troponin I)	MAB10284
Anti-Cardiac Troponin I (Epitope 80-89)	Human Native cTnI (Cardiac Troponin I)	MAB10286
Anti-Cardiac Troponin I (Epitope 170-189) (Detector 2)	Human Native cTnI (Cardiac Troponin I)	MAB10268
Anti-Cardiac Troponin I (Epitope 170-189)	Human Native cTnI (Cardiac Troponin I)	MAB10274
Anti-Cardiac Troponin I (Epitope 190-209)	Human Native cTnI (Cardiac Troponin I)	MAB10280
Apolipoprotein E4	-	MAB10228
Creatinine	Creatinine-BTG	MAB10242
	Creatinine-BTG	MAB10310
	Creatinine-BTG	MAB10312
	Creatinine-BTG	MAB10314
Fatty Acid Binding Protein (FABP)	rHu FABP (3)	MAB9952
	rHu FABP (3)	MAB9954
Fatty Acid Binding Protein (FABP) Capture	rHu FABP (3)	MAB9956
Fatty Acid Binding Protein (FABP) Detector	rHu FABP (3)	MAB9958

BIOCHEMICAL MARKERS CONTINUED

Product Name	Immunogen	Cat. No
Glutathione S-Transferase Omega 1 (GST-O1) Mutant	wtGST peptide-BTG	MAB10068
Glutathione S-Transferase Omega 1 (GST-O1) Wild-type	wtGST peptide-BTG	MAB10064
Glutathione S-Transferase Omega 1 (GST-O1) Wild-type	wtGST peptide-BTG	MAB10066
Granulocyte Macrophage Colony Stimulating Factor	rHu GMCSF	MAB9950
Granulocyte Macrophage Colony Stimulating Factor	rHu GMCSF	MAB10318
Granulocyte Macrophage Colony Stimulating Factor	rHu GMCSF	MAB10320
Intercellular Adhesion Molecule 1	rHu ICAM	MAB9946
	rHu ICAM	MAB9948
L-Selectin	rHu Lselectin	MAB9940
	rHu Lselectin	MAB9942
	rHu Lselectin	MAB9944
MVM (Hematinic Acid)	-	MAB10116
Thyroid Stimulating Hormone Beta specific	Human TSH	MAB9930
Thyroid Stimulating Hormone Beta specific	Human TSH	MAB10264
Thyroid Stimulating Hormone Beta specific (Capture)	Human TSH	MAB9932
Thyroid Stimulating Hormone Beta specific (Detector)	Human TSH	MAB9938
Thyroid Stimulating Hormone Beta specific	Human TSH	MAB9934
Thyroid Stimulating Hormone Beta specific	Human TSH	MAB9936
Tri-iodothyronine	-	MAB9973

BIOCHEMICAL MARKERS CONTINUED

Product Name	Immunogen	Cat. No
Vascular Cellular Adhesion Molecule - 1	rHu VCAM	MAB9920
	rHu VCAM	MAB9922
	rHu VCAM	MAB9924
	rHu VCAM	MAB9926
	rHu VCAM	MAB9928

RECOMBINANT ANTIBODY FRAGMENTS

Radox Biosciences off the shelf offering includes a range of Single Chain Variable Fragments (scFv) and Single Domain Antibodies (sdAb). As part of our offering, we can provide custom antibody fragments including **Single Domain Antibody Fragments, Single Chain Variable Fragments** and **Fragment Antigen Binding Antibodies**.

Our Recombinant Antibody Fragments are available in pack sizes of 10µg, 100µg and 1mg increments. Additionally, matching HRP conjugates are available for all small molecule antibodies.

OUR RECOMBINANT ANTIBODY FRAGMENTS OFFER THE FOLLOWING FEATURES & BENEFITS



SMALL SIZE	This can have many potential advantages such as better tissue penetration, higher coating concentrations and bringing binding events closer to biosensor surfaces giving a higher sensitivity.
NO FC REGION	As the constant regions of the antibody are removed, this will reduce antibody immunogenicity and the risk of assay interference.
IP PROTECTION	The DNA of each clone is sequenced which allows better IP protection of important clones.
GUARANTEED SUPPLY	As clones are DNA sequenced and archived, future supply does not rely on the survival of a cell line.
GENETICALLY ENGINEERED	Our antibody fragments can be tailored allowing for adaptable and novel formats including the addition of fusion tags, site-specific conjugation and the generation of multivalent and bispecific formats.
HIGH AFFINITIES	Directed mutagenesis allows the generation of clones with high binding affinities.
SCALABILITY	Due to our novel bacterial expression system, production is scalable allowing orders to be processed for all quantities of manufacture.
PRIMARY MANUFACTURER	Radox Biosciences antibody fragments are developed in our state of the art facility with access to expertise and technical assistance. We can offer advice on epitope targeting potential pairing of antibodies.

GENERAL SPECIFICATION

HOST:	E. coli
FORMAT:	Single Chain Fv recombinant antibody fragment
PH:	7.4
BUFFER:	PBS containing 0.09% sodium azide preservative
STORAGE:	Stable at 4°C, Long Term storage at -20°C
PURITY:	Affinity Purified to >90%

Product Name	Cat. No.
Alpha 1 Acid Glycoprotein (Orosomucoid or AAG) Clone 2076.22D8	RAF9495
Cancer Antigen 15-3 (CA15-3/mucin 1) Clone CA153.I	RAF9551
Carcinoembryonic Antigen (CEA) Clone HM4.C1	RAF9555
Cardiac Troponin I (cTnI) Epitope I-20 Clone 1542.2A4	RAF9411
Cardiac Troponin I (cTnI) Epitope 13-28 Clone 1542.14F10	RAF9383
Cardiac Troponin I (cTnI) Epitope 20-40 Clone MC71.H6	RAF9519
Cardiac Troponin I (cTnI) Epitope 40-50 Clone 1542.61H8	RAF9523
Cardiac Troponin I (cTnI) Epitope 50-60 Clone 001.6C2	RAF9527
Cardiac Troponin I (cTnI) Epitope 55-70 Clone 001.7B11	RAF9531
Cardiac Troponin I (cTnI) Epitope 80-100 Clone 001.11D9	RAF9535
Cardiac Troponin I (cTnI) Epitope 80-100 Clone 1542.14A2	RAF9391
Cardiac Troponin I (cTnI) Epitope 100-110 Clone 1542.42F9	RAF9499
Cardiac Troponin I (cTnI) Epitope 160-175 Clone 1542.3H4	RAF9346
Cardiac Troponin I (cTnI) Epitope 170-190 Clone 1542.31D7	RAF9399
Cardiac Troponin I (cTnI) Epitope 190-209 Clone 1542.4D1	RAF9358
Creatinine Kinase-MB (CK-MB) Clone 2431.3B8	RAF9543
Epidermal Growth Factor Receptor (EGFR/ErbB1) Clone E1A	RAF9567
Epidermal Growth Factor Receptor (EGFR/ErbB1) Clone E1B	RAF9571
ErbB2/HER2 Clone ErbB2A	RAF9575
Ethyl Glucuronide (ETG) Clone MC78.1F5	RAF9563
FABP3 (Heart Fatty Acid Binding Protein/ FABPh) Epitope 1 Clone MC25G11	RAF9214
FABP3 ((Heart Fatty Acid Binding Protein/ FABPh) Epitope 1 Clone 001.11F2	RAF9539
FABP3 (Heart Fatty Acid Binding Protein/ FABPh) Epitope 1 Clone 1360.6H5	RAF9471

Product Name	Cat. No.
FABP3 (Heart Fatty Acid Binding Protein/ FABPh) Epitope 2 Clone MC7D5	RAF9210
FABP 5 (Epidermal Fatty Acid Binding Protein) Clone MC68.G5	RAF9547
FABP7 (Brain Fatty Acid Binding Protein) Epitope 1 Clone MC63.E2	RAF9475
FABP7 (Brain Fatty Acid Binding Protein) Epitope 2 Clone MC65.E1	RAF9483
FABP8 (Myelin Fatty Acid Binding Protein) Clone MC61.B3	RAF9487
Haptoglobin Beta - Clone 1208.9C4	RAF9218
Hepatitis B Surface Antigen (HBsAg) Clone MCHBS	RAF9338
Human Immunoglobulin M (IgM) Clone MC57.A2	RAF9467
Inter-cellular Adhesion Molecule 1 (ICAM-1 or CD54)	RAF9254
L-Selectin - Clone MC39A10	RAF9258
Norketamine - Clone MC32F5	RAF 9202
Plasminogen Activator Inhibitor-1 (PAI-1) Clone 1040.1F6	RAF9326
Plasminogen Activator Inhibitor-1 (PAI-1) Clone 1040.1518.5H8	RAF9415
Retinol Binding Protein 4 (RBP4) Clone 1050.2D2	RAF9559
Soluble VEGFR-1 (sVEGFR1 or FLT-1) Clone 867.2A3	RAF9262
Soluble VEGFR-1 (sVEGFR1 or FLT-1) Clone 867.2D2	RAF9266
Tetanus Toxoid Clone MCTT	RAF9342
Thyroid-Stimulating Hormone (TSH) Epitope 2 Clone 1001.1E5.C2	RAF9511
Thyroid-Stimulating Hormone (TSH) Epitope 3 Clone MC43A2	RAF9298
Thyroid-Stimulating Hormone (TSH) Epitope 3 Clone 1030.4C1	RAF9451
Thyroid-Stimulating Hormone (TSH) Epitope 4 Clone 1014.5B10	RAF9515
TSH / HCG / LH / FSH α -chain Epitope 1 Clone 1001.1E5.E8	RAF9375

HUMAN RECOMBINANT PROTEINS

Recombinant proteins can be used in a multitude of different ways including ELISA kits, control and calibrator manufacture, antibody recognition assays and immunohistochemistry. Randox Biosciences diverse range of recombinant proteins is quite different from other companies in that they have evolved through the manufacture of our own diagnostic kits. We have a range of over 200 proteins including classic and novel proteins. We can also supply the entire corresponding polyclonal antibody (protein pair) or conjugate for invaluable assay development.

Our Human Recombinant Proteins are available in pack sizes of 10µg, 100µg and 1mg increments. Additionally, a western blot control is also available for all products listed.

OUR HUMAN RECOMBINANT PROTEINS OFFER THE FOLLOWING FEATURES & BENEFITS



CARRIER FREE FORMAT

Presented in buffered 50% glycerol

HIGH PURITY

Our production process of recombinant proteins results in a very high purification level of >95% by SDS-PAGE

CONSISTENCY

High level of consistency between lot to lot as evaluated by PAGE, Bradford, Western Blot Analysis and ELISA (concentration determined by Bradford)

RECOMINANT PROTEIN SPECIFICATION

- HOST:** E. coli or Mammalian cells
- FORMAT:** Liquid
- BUFFER:** 50% Glycerol
- PURITY:** >95% determined by SDS-Page
- STORAGE:** Long Term storage -20°C

E.coli Expressed	
I4-3-3-Gamma	RCP9373
ADAM 12s	RCP9146
ADAM 10	RCP9385
Amylase	RCP9473
Alanine Aminotransferase (ALT)	RCP9457
Alkaline Phosphatase (ALP)	RCP9465
Aspartate Transaminase (AST)	RCP9461
C-CCSP-2	RCP9323
C-Reactive Protein (CRP)	RCP9131
Carbonic Anhydrase III (CA-III)	RCP9100
Cyclin-Dependant Kinase 4 (CDK-4)	RCP9111
Cyclin-Dependent Kinase Inhibitor 1A/p21 (CDK-1A)	RCP9477
Cystatin C	RCP9437
Cytokeratin-18 (CK-18)	RCP9105
DD-Carboxypeptidase	RCP9489
Dickkopf-Related Protein 1 (DKK1)	RCP9567
E-Selectin	RCP9118
Estramustine Binding Protein (EMBP)	RCP9144
Enterokinase	RCP9377
Eotaxin	RCP9149
Fatty Acid Binding Protein-Adipocyte (A-FABP)	RCP9335
Fatty Acid Binding Protein-Brain (B-FABP)	RCP9315
Fatty Acid Binding Protein-Epidermal (E-FABP)	RCP9343

E.coli Expressed	
Fatty Acid Binding Protein-Ileal (IL-FABP)	RCP9347
Fatty Acid Binding Protein-Intestinal (I-FABP)	RCP9331
Fatty Acid Binding Protein-Liver (L-FABP)	RCP9327
Fatty Acid Binding Protein-Muscle and Heart (MH-FABP)	RCP9101
Fatty Acid Binding Protein (Myelin) (M-FABP)	RCP9339
Fatty Acid Binding Protein-Testis (T-FABP)	RCP9527
Fractalkine	RCP9433
Galectin	RCP9571
Gamma-Glutamyl Transpeptidase (GGT)	RCP9469
Gamma Hydroxybutyrate CoA Transferase	RCP9497
Glutathione S-Transferase Omega I 140 A (GST01)	RCP9192
Glutathione S-Transferase Omega I 140 D (GST01)	RCP9196
Glutathione S-Transferase P	RCP9555
Granulocyte Colony Stimulating Factor (G-CSF)	RCP9157
Granulocyte Macrophage Colony Stimulating Factor (GM-CSF)	RCP9139
Growth Differentiation Factor 15 (GDF15)	RCP9575
GSK-3 β	RCP9393
Haptoglobin B-Chain	RCP9188
Heat Shock Protein 10 (HSP-10)	RCP9365
Hepatocyte Growth Factor-A (HGF-A)	RCP9449
Hepatocyte Growth Factor-B (HGF-B)	RCP9452
High Mobility Group Protein 1 (HMGB-1)	RCP9155
Human Chorionic Gonadotropin (HCG)	RCP9481

HUMAN RECOMBINANT PROTEINS

E.coli Expressed	
Human Neutrophil Peptide 1-3 (HNPI-3)	RCP9361
Hydroxyacid-Oxoacid Transhydrogenase (HOT)	RCP9543
Inhibin A	RCP9357
Inhibin Alpha Subunit	RCP9142
Inhibin Beta A Subunit	RCP9143
Integrin-Linked Kinase (ILK)	RCP9299
Intercellular Adhesion Molecule-1 (ICAM-1)	RCP9114
Interferon Gamma (IFN γ)	RCP9153
Interferon Inducible Protein (IP-10)	RCP9151
Interleukin-1 Alpha (IL-1A)	RCP9128
Interleukin-1 Beta (IL-1B)	RCP9129
Interleukin-1 Receptor Antagonist (IL-1RA)	RCP9150
Interleukin-2 (IL-2)	RCP9119
Interleukin-2 Receptor Alpha (IL-2RA)	RCP9176
Interleukin-3 (IL-3)	RCP9133
Interleukin-4 (IL-4)	RCP9120
Interleukin-5 (IL-5)	RCP9134
Interleukin-6 (IL-6)	RCP9132
Interleukin-6 Soluble Receptor (IL-6SR)	RCP9180
Interleukin-7 (IL-7)	RCP9135
Interleukin-8 (IL-8)	RCP9125
Interleukin-10 (IL-10)	RCP9156
Interleukin-12p35 (IL-12p35)	RCP9121
Interleukin-12p40 (IL-12p40)	RCP9122

E.coli Expressed	
Interleukin-13 (IL-13)	RCP9136
Interleukin-15 (IL-15)	RCP9137
Interleukin-17 (IL-17)	RCP9413
Interleukin-23 (IL-23)	RCP9141
Interleukin-33 (IL-33)	RCP9417
Interleukin-35 (IL-35)	RCP9421
Kallikrein 6 (KLK-6)	RCP9485
Lipoprotein-Associated Phospholipase A2 (LP-PLA2)	RCP9441
L-Selectin	RCP9117
Macrophage Inflammatory Protein-1a (MIP-1a)	RCP9140
Matrix Metalloproteinase-9 (MMP-9)	RCP9311
Mesothelin	RCP9591
Migration Inhibitory Factor (MIF)	RCP9445
Mitochondrial Glycerol-3-Phosphate Dehydrogenase (mGPD)	RCP9303
Monoamine Oxidase B (MAOB)	RCP9307
Monocyte Chemotactic Protein-1 (MCP-1)	RCP9164
Myoglobin	RCP9110
N-CCSP-2	RCP9319
Neuronal Specific Enolase (NSE)	RCP9126
Neutrophil Gelatinase Associated Lipocalin (NGAL)	RCP9103
Nicotinamide N-Methyltransferase (NNMT)	RCP9369
Nucleoside diPhosphate Kinase A (NDKA)	RCP9551
Osteocalcin	RCP9559
Osteonectin	RCP9501
P-Selectin	RCP9116
	RCP9521

E.coli Expressed	
Paraoxonase 1 (PO-1)	RCP9108
Paraoxonase 2 (PO-2)	RCP9109
Pencillin Binding Protein 2X (PBP-2X)	RCP9493
Periostin	RCP9595
Peroxisom Proliferator-Acivated Receptor Gamma (PPAR-g)	RCP9102
Plasminogen Activator Inhibitor 1 (PAI-1)	RCP9163
Platelet Derived Growth Factor A (PDGF-A)	RCP9123
Platelet Derived Growth Factor B (PDGF-B)	RCP9124
Pregnancy Associated Plasma Protein-1 (PAPP-1)	RCP9145
Procalcitonin (PCT)	RCP9154
Prolactin	RCP9130
Pro-Matrix Metalloproteinase 9 (PRO MMP-9)	RCP9381
Rantes	RCP9148
Resistin	RCP9161
Retinol Binding Protein (RBP)	RCP9159
SI00 Beta Chain	RCP9127
SI00A10	RCP9106
SI00A11	RCP9107
sCD40-L	RCP9429
Sclerostin	RCP9563
Soluble Triggering Receptor Expressed on Myeloid Cells-1 (STREM-1)	RCP9184
Soluble Tumour Necrosis Factor Receptor 1 (STNF-R1)	RCP9099
Soluble Tumour Necrosis Factor Receptor 2 (STNF-R2)	RCP9168
Squamous Cell Carcinoma Antigen 1 (SCCA-1)	RCP9583
Succinic Semialdehyde Dehydrogenase (SSADH)	RCP9547
Squamous Cell Carcinoma Antigen 2 (SCCA-2)	RCP9587

E.coli Expressed	
ST-2	RCP9389
Succinic Semialdehyde Reductase (SSR)	RCP9539
Tissue Factor	RCP9425
Tissue Inhibitor of Metalloproteinase 1 (TIMP-1)	RCP9172
Transforming Growth Factor Beta 1 (TGF-β1)	RCP9397
Tropomyosin 1 Variant 3	RCP9353
Tumour Necrosis Factor Alpha (TNFα)	RCP9152
Tumour Necrosis Factor Beta (TNFβ)	RCP9112
Tumour Type M2 Pyruvate Kinase (M2PK)	RCP9104
Vascular Cell Adhesion Molecule 1 (VCAM-1)	RCP9113
Vascular Cell Adhesion Molecule 1 Fragment (VCAM-1Frag)	RCP9158
Vascular Endothelial Growth Factor (VEGF)	RCP9115
Vascular Endothelial Growth Factor Receptor 1 (VEGF-R1)	RCP9138
Visfatin	RCP9162

Mammalian Expressed	
Alkaline Phosphatase	RCP9603
Amylase	RCP9607
CD36 (30-439)	RCP9599
Dickkopf-Related Protein 1 (DKK1)	RCP9619
Gamma Glutamyl Transferase (gGT)	RCP9611
Mesothelin N Terminal	RCP9627
Periostin	RCP9623
Procalcitonin (PCT)	RCP9535
Sclerostin	RCP9615

FROZEN HUMAN PLASMA

Plasma is traditionally used for patient care, but 80% of donated plasma ends up going to waste. Human plasma is ideal for the production of control and calibrator material, reagents in biochemical assays and for research and development purposes.

ALL PLASMA HAS TESTED NEGATIVE FOR THE FOLLOWING:



- HIV
- Hepatitis B + C
- HTLV I + II t
- Syphilis
- CMV
- Procleix WNV

Frozen Human Plasma	Cat No.
Male	HP1007
Female	HP1008
Mixed Gender	HP1006

BUFFERS • REAGENTS • ACCESSORIES

Buffers/Reagents/Accessories	Cat No.		
Elisa Coating Buffer (x20)	RLS9200	Conjugate Diluent Plus (Low MW Hapten Conjugates)	RLS9209
Elisa Blocking Buffer (x5)	RLS9201	Conjugate Stabilising Buffer (Low MW Hapten Conjugates)	RLS9210
Elisa Blocking Buffer Plus	RLS9202	Conjugate Stabilising Buffer Plus (Low MW Hapten Conjugates)	RLS9211
Elisa Assay Diluent (Competitive)	RLS9203	Conjugate Stabilising Buffer Plus	RLS9212
Elisa Assay Diluent Plus (Competitive)	RLS9204	Wash Buffer Solution (CONC.)	RLS9213
Elisa Assay Diluent (Sandwich)	RLS9205	Calibrator Diluent (Protein Free)	RLS9214
Elisa Assay Diluent Plus (Sandwich)	RLS9206	Calibrator Diluent (Low Protein Base)	RLS9215
Conjugate Diluent	RLS9207	Calibrator Diluent (High Protein Base)	RLS9216
Conjugate Diluent (Low MW Hapten Conjugates)	RLS9208	TMB Substrate	RLS9217
		Stop Solution	RLS9218

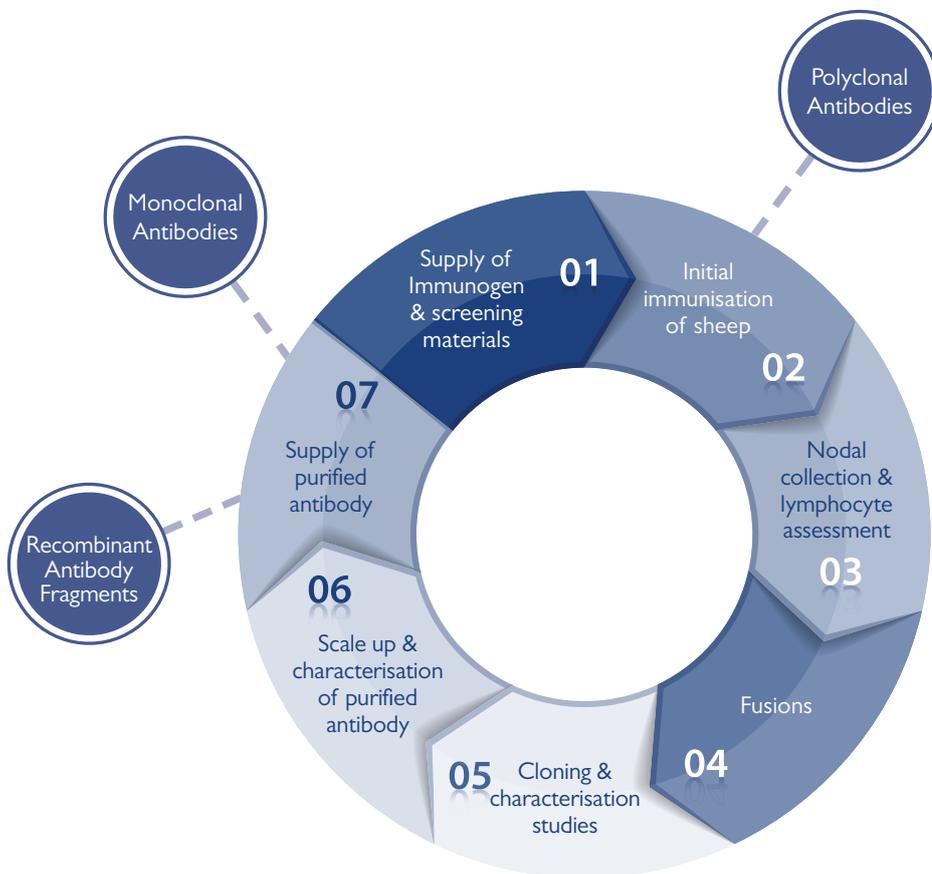
CUSTOM MANUFACTURING SERVICES

To meet your precise requirements, Randox Biosciences offers customised antibody generation services to the pharmaceutical and biotechnology industry.

We have accumulated considerable experience and expertise in the custom manufacture of high quality polyclonal and monoclonal antibodies as well as recombinant proteins and recombinant antibody fragments (sdAb, scFv, Fab). Our scientists highly recommend the use of Single Domain Antibody Fragments (sdAb) as they are more stable, adaptable and easily humanised, making them ideal for therapeutic products.

Our customisation service has proved incredibly successful in the research and development industries allowing you to use our expertise to obtain the antibody and protein most relevant to your line of work.

With over 300 highly trained research scientists and over 30 years' experience in commercial assay development, Randox Biosciences can also provide a tailor made assay development service to meet your specifications in both a timely and cost-effective manner.





To order off the shelf or custom
antibodies or recombinant proteins visit:

randox-lifesciences.com



RANDOX
BIOSCIENCES

Randox Biosciences, 55 Diamond Road, Crumlin, County Antrim, BT29 4QY, United Kingdom

T +44 (0) 28 9442 2413 **F** +44 (0) 28 9445 2912 **E** info@randoxbiosciences.com **W** randoxbiosciences.com

Information correct at time of print.

Randox Laboratories Ltd. is a subsidiary of Randox Holdings Limited a company registered within Northern Ireland with company number NI. 614690. VAT Registered Number: GB 151 6827 08.

Product availability may vary from country to country. Please contact your local Randox representative for information. Products may be for Research Use Only and not for use in diagnostic procedures in the USA.