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Since April 1991, the International Blood Group Reference Laboratory (IBGRL) has marketed monoclonal antibodies for immunohaematological research under the name "IBGRL Research Products". The antibodies cover a range of specificities of interest to researchers in the fields of immunology, haematology, cell biology and biochemistry.

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1. Formats

Please identify which product you require by adding the format code to the product code when placing an order (e.g. product code for purified BRIC 229 is 9409PA)

Format codes

CS	-	Culture Supernatant
PA	-	Purified Antibody
FI	-	FITC Conjugated
PE	-	Phycoerythrin (PE) Conjugated
BI	-	Biotin Conjugated
AP	-	APC Conjugated
CE	-	CE Marked (BRAD 3 FITC, AEVZ 5.3 FITC & BIRMA 17C PE Only)

Custom made antibodies and conjugates also available:

- Antibodies to your specification.
- Conjugates – FITC, PE, Biotin, APC as standard & others e.g peroxidase by request. Please enquire.
- Large scale production of antibodies provided either on collaborative or commercial basis.
- Custom made antibody fragments – Fab and F(ab')₂.

2. Pricing

CULTURE SUPERNATANTS BULK PRICING

Amount (ml)	Unit Price/ml (GBP)
1+	49.00
5+	27.00
10+	21.00
20+	16.00
50+	10.50
100+	8.00
500+	4.40

PURIFIED ANTIBODIES BULK PRICING

Amount (mg)	Unit Price/mg (GBP)
0.1+	110.00
1+	505.00
2+	455.00
5+	355.00
10+	303.00

CONJUGATES BULK PRICING

FITC		PE		Biotin		APC	
Amount (100 tests)	Unit Price/ 100 tests (GBP)	Amount (100 tests)	Unit Price/ 100 tests (GBP)	Amount (100µg)	Unit Price/ 100µg (GBP)	Amount (100 tests)	Unit Price/ 100 tests (GBP)
1+	180.00	1+	233.00	1+	169.00	1+	249.00
5+	144.00	5+	212.00	5+	135.00	5+	224.00
10+	130.00	10+	191.00	10+	123.00	10+	201.00

3.1.1 Extracellular : Blood Group Related

Product code	Antibody	Specificity	Class	Light chain
9469	BRIC 131	A	mouse IgM	k
9491	BIRMA 1	A	mouse IgM	k
9434	BRIC 145	A	mouse IgG1	k
9418	BRIC 66	A/Tn/GaINAcα1	mouse IgM	k
9470	BRIC 250	B	mouse IgM	k
9431	BGRL 1	B	mouse IgG1	k
9432	BGRL 2	B	mouse IgG1	k
9436	BIRMA D10	Rh D / CD240D	human IgM	λ
9485	HAM A	Rh D / CD240D	human IgM	k
9486	HAM B	Rh D / CD240D	human IgM	λ
9487	MAD-2	Rh D / CD240D	human IgM	λ
9471	RUM 1	Rh D / CD240D	human IgM	λ
9462	BRAD 2	Rh D / CD240D including D ^{vi}	human IgG1	k
9433	BRAD 3	Rh D / CD240D	human IgG3	k
9463	BRAD 5	Rh D / CD240D	human IgG1	k
9435	BIRMA D6	Rh D / CD240D including D ^{vi}	human IgG1	k
9464	FOG-1	Rh D / CD240D	human IgG1	k
9442	AEVZ 5.3	RhD Negative Control	human IgG3	λ
9443	VAZ05	RhD Negative Control	human IgG1	λ
9424	COE	Rh E / CD240CE	human IgM	λ
9423	BRIC 69	Rh-related	mouse IgG1	k
9419	BRIC 39	H type 1 & 2 / CD173	mouse IgM	λ
9420	BRIC 198	H / CD173	mouse IgG1	k
9421	BRIC 231	H / CD173	mouse IgG1	k
9440	BRIC 18	Kell related / CD238	mouse IgG2a	k
9441	BRIC 68	Kell related / CD238	mouse IgG2a	k
9457	BRIC 107	Kell related / CD238	mouse IgG1	k
9425	BRIC 203	Kell related (Kp ^{bc}) / CD238	mouse IgG1	k
9422	BRIC 87	Le ^a	mouse IgM	k
9501	MAL A	Le ^a	mouse IgM	k
9426	BRIC 108	Lu ^b / CD239	mouse IgG1	k
9438	BRIC 221	Lu / CD239	mouse IgG2b	k
9427	BRIC 224	Lu / CD239	mouse IgG1	k
9412	6A7	M	mouse IgG1	k
9500	BRAC 30	M	rat IgG2c	k
9401	BRIC 157	N	mouse IgG1	k
9414	BRIC 111	Tn / CD175	mouse IgG1	k
9413	BRIC 14	Wr ^b	mouse IgG2a	k
9455	BIRMA 84b	Wr ^b	mouse IgG3	k

3.1.2 Extracellular : Structural

Product code	Antibody	Specificity	Class	Light chain
9439	BRIC 6	CD233 / Band 3 (extracellular domain)	mouse IgG3	k
9472	BRIC 71	CD233 / Band 3 (extracellular domain)	mouse IgG1	k
9468	BRIC 200	CD233 / Band 3 (extracellular domain)	mouse IgG1	k
9451	BRAC 17	CD233 / Band 3 (extracellular domain)	rat IgG2b	k
9452	BRAC 18	CD233 / Band 3 (extracellular domain)	rat IgG2b	k
9415	BRIC 256	CD235a / Glycophorin A (extracellular domain)	mouse IgG1	k
9417	BRIC 4	CD236R / Glycophorin C (extracellular domain)	mouse IgG1	k
9411	BRIC 10	CD236R / Glycophorin C (extracellular domain)	mouse IgG1	k

3.2 Intracellular

Product code	Antibody	Specificity	Class	Light chain
9458	BRIC 132	CD233 / Band 3 (cytoplasmic domain)	mouse IgG1	k
9449	BRIC 155	CD233 / Band 3 (cytoplasmic domain)	mouse IgG2b	k
9450	BRIC 170	CD233 / Band 3 (N-terminal cytoplasmic domain)	mouse IgG1	k
9494	BRAC 66	CD233 / Band 3 (N-terminal cytoplasmic domain)	rat IgG2a	k
9410	BRIC 163	CD235a / Glycophorin A (cytoplasmic domain)	mouse IgG2a	k
9416	BGRL 100	CD236R / Glycophorin C (cytoplasmic domain)	mouse IgG1	k
9484	BRAC 67	Glut-1 (intracellular domain)	rat IgG2c	k

3.2 Cytoskeletal

Product code	Antibody	Specificity	Class	Light chain
9476	BRIC 156	Ankyrin	mouse IgG2a	k
9473	BRIC 272	Ankyrin	mouse IgG1	k
9480	BRIC 274	Ankyrin	mouse IgG1	k
9477	BRIC 172	Alpha spectrin	mouse IgG1	k
9478	BRIC 276	Alpha Spectrin	mouse IgG1	k
9479	BRAC 65	Beta spectrin	rat IgG2a	k
9474	BRIC 273	Protein 4.2	mouse IgG1	k

4. Multiple Cell Types

Product code	Antibody	Specificity	Class	Light chain
9406	BRIC 222	CD44	mouse IgG1	k
9407	BRIC 235	CD44	mouse IgG2b	k
9430	KZ1	CD44	mouse IgG1	k
9492	BIRMA K12	CD45RA	mouse IgG1	k
9454	BRIC 125	CD47	mouse IgG2b	k
9408	BRIC 126	CD47	mouse IgG2b	k
9493	BRIC 79	CD50 / ICAM3	mouse IgG2a	k
9402	BRIC 110	CD55 (DAF)	mouse IgG1	k
9403	BRIC 128	CD55 (DAF)	mouse IgM	k
9404	BRIC 216	CD55 (DAF)	mouse IgG1	k
9429	BRIC 220	CD55 (DAF)	mouse IgG1	k
9428	BRIC 230	CD55 (DAF)	mouse IgG1	k
9405	BRIC 5	CD58 (LFA-3)	mouse IgG2a	k
9409	BRIC 229	CD59	mouse IgG2b	k

5. Platelets / Granulocytes / Leucocytes

Product code	Antibody	Specificity	Class	Light chain
9459	PAB-1	CD41/CD61	mouse IgG1	k
9460	PAB-6	CD41/CD61	mouse IgG1	k
9461	5B12	CD41	mouse IgG1	k
9448	PAB-5	CD42	mouse IgG1	k
9456	P-16	CD49b/CD29	mouse IgG1	k
9453	BIRMA 17C	CD66b (granulocytes)	mouse IgG1	k

6. HLA / Stem Cells / Other

Product code	Antibody	Specificity	Class	Light chain
9465	P-25	HLA-B*0702 MHC Class I	mouse IgG1	k
9466	P-43	HLA Class I	mouse IgG1	k
9467	OP67	HLA A*0201 MHC Class I	mouse IgG1	k
9437	BIRMA K3	CD34	mouse IgG1	k
9495	BGRL 13	Complement C3c	mouse IgG1	k
9496	BGRL 16	Complement C3c	mouse IgG1	k
9489	BRIC 8	Complement C3d	mouse IgM	k
9445	BGRL 11	Complement C3d	mouse IgM	k
9446	BIRMA K65	NK cells	mouse IgG1	k
9490	F79A	Human IgG	mouse IgG1	k

7. CE Marked FMH Reagents

At the end of 2006, both BRAD 3 FITC (anti-D) and AEVZ 5.3 FITC (isotype matched negative control) were CE marked as a kit to be used to measure feto-maternal haemorrhage (FMH). These reagents can be purchased individually (9433CE / 9442CE) or together for a discounted price (9447CE). In June 2015 a new PE conjugate, BIRMA 17C-PE, with specificity for CD66b (granulocytes), was launched as a CE marked product. This reagent complements our method for FMH estimation as it allows the elimination (by gating) of interfering neutrophils, thereby ensuring a more accurate measurement. This reagent can be purchased as part of our new FMH Classic Plus Kit (9481CE)

Product code	Antibody	Specificity	Class	Light chain
9433CE	BRAD 3 FITC	Rh D / CD240D	human IgG3	k
9442CE	AEVZ 5.3 FITC	RhD Negative Control	human IgG3	λ
9453CE	BIRMA 17C PE	CD66b (granulocytes)	mouse IgG1	k
9447CE	BRAD-3 & AEVZ 5.3	FMH Classic Kit	See above	See above
9481CE	BRAD 3, AEVZ 5.3, BIRMA 17C	FMH Classic Plus Kit	See above	See above
9498CE	Any two CE FMH reagents	FMH Alt Kit	See above	See above

One 100 test vial of BRAD 3 <u>OR</u> AEVZ 5.3 FITC (9433CE /9442CE) <u>OR</u> two 100 test vials of BIRMA 17C PE (9453CE)	
1+	£180.00
5+	£144.00
10+	£130.00

FMH CLASSIC KIT: One 100 test vial of BRAD 3 & AEVZ 5.3 FITC (9447CE)	
1+	£270.00
5+	£216.00
10+	£194.00

FMH CLASSIC PLUS KIT: One 100 test vial of BRAD 3 and AEVZ 5.3 FITC & two vials of BIRMA 17 C PE (9481CE)	
1+	£330.00
5+	£264.00
10+	£236.00

FMH ALT KIT: (9498CE)	
Any 2 of BRAD 3 FITC, AEVZ 5.3 FITC or BIRMA 17C PE - please specify Same price as FMH Classic Kit	

8. Pipeline CE Marked Reagents

8.1 Recombinant blood group proteins

Detection and identification of clinically significant blood group specific antibodies in patients requiring blood transfusion can be difficult if antibodies to high frequency antigens are also present. Soluble recombinant (sr) proteins with blood group antigen activity can be used to inhibit haemagglutination by these ‘nuisance’ antibodies, allowing identification of underlying clinically significant antibodies. Sr proteins are pre-incubated with patient serum or plasma before addition of the inhibited patient sample to panel red blood cells.

Knops Inhibition Reagent (KNIR) – product code 9497

KNIR contains a mixture of two srCR1 proteins that inhibit red cell agglutination by anti-Knops/McCoy blood group specific antibodies in both gel and tube agglutination tests.

One vial of KNIR is sufficient for up to 12 inhibition reactions.

Product shipped by courier on dry ice. Store at -20°C .

Knops Inhibition Reagent KNIR (9497) per vial	
1+	£50.00
10+	£40.00
50+	£30.00
100+	£20.00

Delivery costs:
UK - £25
Overseas - price on enquiry

9. Contact Us

Orders/Technical Enquiries: enquiries.IBGRL@nhsbt.nhs.uk

Tel: +44 (0)117 921 7500
Fax: +44 (0)117 912 5796
Web: <http://IBGRL.blood.co.uk>

Postal Addresses:

Production Lab/Admin Office

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Bristol BS34 7QH

Finance Office

Accounts Receivable
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Leeds LS15 7TW

Invoice Queries: accounts.receivable@nhsbt.nhs.uk

Tel: +44 (0)113 820 5947/5946/5948
Fax: +44 (0)113 820 5956

Please Note:

- Prices are valid 1st April 2017– 31st March 2018.
- All prices are exclusive of VAT.
- There is no delivery charge for most orders within the UK however some high value orders as well as KNIR orders will incur a courier charge. You will be notified before despatch when this occurs.
- Overseas delivery is by courier (Flight Logistics Group); charged at cost price. Quotes available on request. Please contact us if you have alternative courier arrangements.

10.1 Human CD Antigen Expression List of Monoclonal Antibody Products

Product code	Antibody	Specificity	Class	Light chain
9437	BIRMA K3	CD34	mouse IgG1	k
9459	PAB-1	CD41/CD61	mouse IgG1	k
9460	PAB-6	CD41/CD61	mouse IgG1	k
9461	5B12	CD41	mouse IgG1	k
9448	PAB-5	CD42	mouse IgG1	k
9406	BRIC 222	CD44	mouse IgG1	k
9407	BRIC 235	CD44	mouse IgG2b	k
9430	KZ1	CD44	mouse IgG1	k
9492	BIRMA K12	CD45RA	mouse IgG1	k
9454	BRIC 125	CD47	mouse IgG2b	k
9408	BRIC 126	CD47	mouse IgG2b	k
9456	P-16	CD49b/CD29	mouse IgG1	k
9493	BRIC 79	CD50 / ICAM3	mouse IgG2a	k
9402	BRIC 110	CD55 (DAF)	mouse IgG1	k
9403	BRIC 128	CD55 (DAF)	mouse IgM	k
9404	BRIC 216	CD55 (DAF)	mouse IgG1	k
9429	BRIC 220	CD55 (DAF)	mouse IgG1	k
9428	BRIC 230	CD55 (DAF)	mouse IgG1	k
9405	BRIC 5	CD58 (LFA-3)	mouse IgG2a	k
9409	BRIC 229	CD59	mouse IgG2b	k
9453	BIRMA 17C	CD66b (granulocytes)	mouse IgG1	k
9420	BRIC 198	CD173 / H	mouse IgG1	k
9421	BRIC 231	CD173 / H	mouse IgG1	k
9419	BRIC 39	CD173 / H type 1 & 2	mouse IgM	λ
9414	BRIC 111	CD175 / Tn	mouse IgG1	k
9439	BRIC 6	CD233 / Band 3 (extracellular domain)	mouse IgG3	k
9451	BRAC 17	CD233 / Band 3 (extracellular domain)	rat IgG2b	k
9452	BRAC 18	CD233 / Band 3 (extracellular domain)	rat IgG2b	k
9472	BRIC 71	CD233 / Band 3 (extracellular domain)	mouse IgG1	k
9468	BRIC 200	CD233 / Band 3 (extracellular domain)	mouse IgG1	k
9458	BRIC 132	CD233 / Band 3 (cytoplasmic domain)	mouse IgG1	k
9449	BRIC 155	CD233 / Band 3 (cytoplasmic domain)	mouse IgG2b	k
9450	BRIC 170	CD233 / Band 3 (N-terminal cytoplasmic domain)	mouse IgG1	k
9494	BRAC 66	CD233 / Band 3 (N-terminal cytoplasmic domain)	rat IgG2a	k
9415	BRIC 256	CD235a / Glycophorin A (extracellular domain)	mouse IgG1	k
9410	BRIC 163	CD235a / Glycophorin A (cytoplasmic domain)	mouse IgG2a	k
9417	BRIC 4	CD236R / Glycophorin C (extracellular domain)	mouse IgG1	k
9411	BRIC 10	CD236R / Glycophorin C (extracellular domain)	mouse IgG1	k
9416	BGRL 100	CD236R / Glycophorin C (cytoplasmic domain)	mouse IgG1	k
9440	BRIC 18	CD238 / Kell related	mouse IgG2a	k
9441	BRIC 68	CD238 / Kell related	mouse IgG2a	k
9457	BRIC 107	CD238 / Kell related	mouse IgG1	k
9425	BRIC 203	CD238 / Kell related	mouse IgG1	k
9426	BRIC 108	CD239 / Lub	mouse IgG1	k
9438	BRIC 221	CD239 / Lu	mouse IgG2b	k
9473	BRIC 224	CD239 / Lu	mouse IgG1	k
9436	BIRMA D10	CD240D / Rh D	human IgM	λ
9485	HAM A	CD240D / Rh D	human IgM	k
9486	HAM B	CD240D / Rh D	human IgM	λ
9487	MAD-2	CD240D / Rh D	human IgM	λ
9471	RUM 1	CD240D / Rh D	human IgM	λ
9462	BRAD 2	CD240D / Rh D	human IgG1	k
9433	BRAD 3	CD240D / Rh D	human IgG3	k
9463	BRAD 5	CD240D / Rh D	human IgG1	k
9435	BIRMA D6	CD240D / Rh D	human IgG1	k
9464	FOG-1	CD240D / Rh D	human IgG1	k
9424	COE	CD240CE / Rh E	human IgM	λ

