

## Datasheet: MCA1987

<b>Description:</b>	MOUSE ANTI HUMAN CD238
<b>Specificity:</b>	CD238
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	BRIC203
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.2 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	
Haemagglutination	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	TRIS buffered saline
<b>Preservative Stabilisers</b>	<0.1% sodium azide (NaN <sub>3</sub> ) ≤100mM glycine
<b>Approx. Protein</b>	IgG concentration 1.0mg/ml

## Concentrations

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**Immunogen** Human erythrocytes.

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## External Database Links

**UniProt:**

[P23276](#)    [Related reagents](#)

**Entrez Gene:**

[3792](#)    KEL    [Related reagents](#)

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**RRID** AB\_2132640

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**Fusion Partners** Spleen cells from immunized Balb/c were fused with cells of a myeloma cell line.

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**Specificity** **Mouse anti Human CD238 antibody, clone BRIC203** recognizes human CD238, also known as the kell blood group antigen Kpbc. The kell blood group antigens are carried on the ~93 kDa erythrocyte membrane glycoprotein.

In hemagglutination tests, Mouse anti Human CD238 antibody, clone BRIC203 reacts with Kp (a-b+) but not Kp (a+b-). In addition Mouse anti Human CD238 antibody, clone BRIC203 will agglutinate Kp (a+b-c+) and Kp (a-b-c+) erythrocytes but not react with Ko erythrocytes.

Weaker staining in flow cytometry is observed on erythroblasts derived from CD34+ hematopoietic progenitor cells, compared to Kp (a-b+) red blood cells.

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**Flow Cytometry** Use 10µl of the suggested working dilution to label 10<sup>6</sup> cells in 100µl

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## References

1. Petty, A.C. *et al.* (1994) Application of the MAIEA assay to the Kell blood group system. [Vox Sang. 66 \(3\): 216-24.](#)
  2. Reid, M.E. *et al.* (1995) K12 is located on the Kell blood group protein in proximity to K/k and Jsa/Jsb. [Vox Sang. 68 \(1\): 40-5.](#)
  3. Jongerius, J.M. *et al.* (1996) A new low-incidence antigen in the Kell blood group system: VLAN (KEL25). [Vox Sang. 71 \(1\): 43-7.](#)
  4. Van Der Schoot. *et al.* (2002) CD238 - Kell. Leucocyte Typing VII pp 584-5.
  5. Miyazak, T. *et al.* (2002) Serological analyses of anti-kell monoclonal antibodies using MAIEA assay. Leucocyte Typing VII pp 585-8.
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## Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10511 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA198710511>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),  
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),  
[FITC](#), [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M412452:221111'

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