Datasheet: MCA914

<table>
<thead>
<tr>
<th>Description:</th>
<th>MOUSE ANTI HUMAN CD55</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>CD55</td>
</tr>
<tr>
<td>Other names:</td>
<td>DAF</td>
</tr>
<tr>
<td>Format:</td>
<td>Purified</td>
</tr>
<tr>
<td>Product Type:</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone:</td>
<td>BRIC216</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity:</td>
<td>0.2 mg</td>
</tr>
</tbody>
</table>

**Product Details**

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).

<table>
<thead>
<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<tr>
<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<tr>
<td>Immunoprecipitation</td>
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<tr>
<td>Western Blotting (1)</td>
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<tr>
<td>Functional Assays (2)</td>
<td></td>
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</tbody>
</table>

Where this antibody 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 guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) **Non-reducing conditions required.**
(2) **This product contains sodium azide, removal by dialysis is recommended prior to use in functional assays.**

**Target Species**

| Human |

**Product Form**

| Purified IgG - liquid |

**Preparation**

| Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |

**Buffer Solution**

| TRIS buffered saline. |
Preservative Stabilisers
<0.1% Sodium Azide (NaN₃)
≤100mM Glycine

Approx. Protein Concentrations
IgG concentration 1.0 mg/ml

Immunogen
Human fibroblast cell line.

External Database Links
UniProt: P08174 Related reagents
Entrez Gene: 1604 CD55 Related reagents

Synonyms
CR, DAF

RRID
AB_321792

Specificity
**Mouse anti Human CD55 antibody, clone BRIC216** recognizes the CD55 antigen, a ~70 kDa glycoprotein also known as Decay Accelerating Factor (DAF). CD55 is distributed on erythrocytes and other circulating blood cells and also on cells in non-haemopoietic tissue particularly epithelium and endothelium. CD55 is also expressed at the foetal-maternal interfaces in placenta. CD55 has reduced expression on individuals with paroxysmal nocturnal haemoglobinuria. Mouse anti Human CD55 antibody, clone BRIC216 has a functional binding affinity to erythrocytes of 8.7 x 10⁷ M⁻¹. The antigen is pronase and trypsin resistant and chymotrypsin sensitive. Mouse anti Human CD55 antibody, clone BRIC216 recognizes the consensus region 3 of the DAF molecule, which contains the functional site, and the antibody blocks the function of DAF.

Flow Cytometry
Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul

References

**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.

**Guarantee**
12 months from date of despatch

**Health And Safety Information**
Material Safety Datasheet documentation #10511 available at: https://www.bio-rad-antibodies.com/SDS/MCA914 10511

**Regulatory**
For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

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

**Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South America  
Tel: +1 800 265 7376  
Fax: +1 919 878 3751  
Email: antibody_sales_us@bio-rad.com

Worldwide  
Tel: +44 (0)1865 852 700  
Fax: +44 (0)1865 852 739  
Email: antibody_sales_uk@bio-rad.com

Europe  
Tel: +49 (0) 89 8090 95 21  
Fax: +49 (0) 89 8090 95 50  
Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M390514:210915'

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