### Datasheet: MCA914T

**BATCH NUMBER 148237**

**Product Details**

<table>
<thead>
<tr>
<th><strong>Description:</strong></th>
<th>MOUSE ANTI HUMAN CD55</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Specificity:</strong></td>
<td>CD55</td>
</tr>
<tr>
<td><strong>Other names:</strong></td>
<td>DAF</td>
</tr>
<tr>
<td><strong>Format:</strong></td>
<td>Purified</td>
</tr>
<tr>
<td><strong>Product Type:</strong></td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td><strong>Clone:</strong></td>
<td>BRIC216</td>
</tr>
<tr>
<td><strong>Isotype:</strong></td>
<td>IgG1</td>
</tr>
<tr>
<td><strong>Quantity:</strong></td>
<td>25 µg</td>
</tr>
</tbody>
</table>

**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).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistology - Paraffin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western Blotting (1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Functional Assays (2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</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. **Clone BRIC216 recognises human CD55 under non-reducing conditions.**
2. **This product contains sodium azide, removal by dialysis is recommended prior to use in functional assays. Bio-Rad recommend the use of EQU003 for this purpose.**

**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  0.09% 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_1102203

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**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**

12 months from date of despatch

**Health And Safety Information**


10511

**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

Rabbit Anti Mouse IgG (STAR12...) RPE
Goat Anti Mouse IgG IgA IgM (STAR87...) 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
Rabbit Anti Mouse IgG (STAR9...) FITC
Goat Anti Mouse IgG (STAR77...) HRP
Goat Anti Mouse IgG (Fc) (STAR120...)  FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South America  Tel: +1 800 265 7376     Worldwide Tel: +44 (0)1865 852 700
Fax: +1 919 878 3751     Europe Tel: +49 (0) 89 8090 95 21
Email: antibody_sales_us@bio-rad.com     Fax: +44 (0)1865 852 739

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M372616:200708'

Printed on 18 Jan 2024

© 2024 Bio-Rad Laboratories Inc  |  Legal  |  Imprint