Datasheet: MCA2537
BATCH NUMBER 161295

Product Details

Description: MOUSE ANTI HUMAN CD16
Specificity: CD16
Other names: FcRIII
Format: Purified
Product Type: Monoclonal Antibody
Clone: DJ130c
Isotype: IgG1
Quantity: 0.2 mg

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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>1/50 - 1/200</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin (1)</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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</table>

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.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species

Human

Species Cross Reactivity

Reacts with: Macaque

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
Product Form | Purified IgG - liquid
---|---
Preparation | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution | Phosphate buffered saline
Preservative Stabilisers | 0.09% Sodium Azide (NaN₃)
Carrier Free | Yes
Approx. Protein Concentrations | IgG concentration 1.0mg/ml

External Database Links
- UniProt: [P08637](https://www.uniprot.org/uniprot/P08637)  Related reagents
- [O75015](https://www.uniprot.org/uniprot/O75015)  Related reagents

Entrez Gene:
- [2214](https://www.ncbi.nlm.nih.gov/gene/2214)  FCGR3A  Related reagents
- [2215](https://www.ncbi.nlm.nih.gov/gene/2215)  FCGR3B  Related reagents

Synonyms | CD16A, CD16B, FCG3, FCGR3, IGFR3
RRID | AB_877454

Specificity | **Mouse anti Human CD16 antibody, clone DJ130c** recognizes human CD16, also known as Low affinity immunoglobulin gamma Fc region receptor III-A or Fc-gamma RIIIa. CD16a is a 254 amino acid ~50-65 kDa single pass type 1 transmembrane glycoprotein bearing two Ig-like C2 type domains. CD16 exists as a transmembranous form (Fc gammaRIIIA, or CD16A) and a glycosyl phosphatidylinositol (GPI) anchored form, Fc gammaRIIIB, or CD16B ([Scallon et al. 1989](#)). CD16A is expressed by NK cells, some T cells, and macrophages, whereas CD16B is primarily expressed by granulocytes ([Ravetch and Perussia 1989](#)). In addition, CD16B exists as two allelic variants NA1 and NA2. DJ130c recognizes all polymorphonuclear cells irrespective of their NA phenotype. Mouse anti Human CD16 antibody, clone DJ130c recognizes an epitope in the first membrane-distal domain of CD16, recognizes both CD16a and CD16b and has been demonstrated to cross-react with CD16 from rhesus macaques, *Macaca mulatta* ([Xu et al. 2012](#)).

Flow Cytometry | Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.

Histology Positive Control Tissue | Human tonsil
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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2537 10040

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)

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

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