Datasheet: MCA2537

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

Product Details

Applications

<table>
<thead>
<tr>
<th>Applications</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></td>
<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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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.

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 Related reagents
- 075015 Related reagents

Entrez Gene:
- 2214 FCGR3A Related reagents
- 2215 FCGR3B Related reagents

Synonyms
CD16A, CD16B, FCG3, FCGR3, IGFR3

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 I transmembrane glycoprotein bearing two Ig-like C2 type domains. CD16 exists as a transmembrane form (Fc gammaRIIA, or CD16A) and a glycosyl phosphatidylinositol (GPI) anchored form, Fc gammaRIIB, 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 1x10^6 cells in 100ul.

Histology Positive Control Tissue
Human tonsil

References

Storage
Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life
18 months from date of despatch.

Health And Safety Information
Material Safety Datasheet documentation #10040 available at:

Regulatory
For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP
Goat Anti Mouse IgG (STAR77...) HRP
Rabbit Anti Mouse IgG (STAR12...) RPE
Rabbit Anti Mouse IgG (STAR8...) DyLight®800
Rabbit Anti Mouse IgG (STAR13...) HRP
Goat Anti Mouse IgG (STAR76...) RPE
Goat Anti Mouse IgG (STAR70...) FITC
Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP
Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP
Rabbit Anti Mouse IgG (STAR9...) FITC
Human Anti Mouse IgG1 (HCA036...) HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)