Datasheet: MCA2537PB

Description: MOUSE ANTI HUMAN CD16:Pacific Blue®
Specificity: CD16
Other names: FcRIII
Format: Pacific Blue®
Product Type: Monoclonal Antibody
Clone: DJ130c
Isotype: IgG1
Quantity: 100 TESTS/1ml

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.

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
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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.

Target Species
Human

Species Cross Reactivity
Reacts with: Macaque
N.B. Antibody reactivity and working conditions may vary between species.

Product Form
Purified IgG conjugated to Pacific Blue - liquid

Max Ex/Em
<table>
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<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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<tbody>
<tr>
<td>Pacific Blue®</td>
<td>410</td>
<td>455</td>
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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)
1% Bovine Serum Albumin

Approx. Protein Concentrations
IgG concentration 0.05 mg/ml

External Database Links
UniProt: P08637 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 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 1x10^6 cells in 100ul

References
15. Romee R et al. (2013) NK cell CD16 surface expression and function is regulated by a disintegrin and metalloprotease-17 (ADAM17). *Blood. 121 (18): 3599-608*.

**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**

12 months from date of despatch.

**Acknowledgements**

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**Health And Safety Information**


**Regulatory**

For research purposes only.

**Related Products**

**Recommended Negative Controls**

**MOUSE IgG1 NEGATIVE CONTROL:Pacific Blue® (MCA928PB)**

**Recommended Useful Reagents**

**HUMAN SEROBLOCK (BUF070A)**

**HUMAN SEROBLOCK (BUF070B)**

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