Datasheet: MCA2235PET

Description: RAT ANTI MOUSE CD206:RPE

Specificity: CD206

Other names: MANNOSE RECEPTOR C TYPE 1

Format: RPE

Product Type: Monoclonal Antibody

Clone: MR5D3

Isotype: IgG2a

Quantity: 25 TESTS

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>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Flow Cytometry (1)</td>
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<td>Neat</td>
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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 a guide only. It is recommended that the user titrates the antibody for use their own system using appropriate negative/positive controls.

(1) **CD206 is expressed weakly at the cell surface. Staining may be increased following membrane permeabilisation. Bio-Rad recommends the use of Leucoperm™ (Product Code BUF09) for this purpose.**

Target Species: Mouse

Product Form: Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised

Reconstitution: Reconstitute with 0.25 ml distilled water

Max Ex/Em

<table>
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<tr>
<th>Fluorophore</th>
<th>Excitation (nm)</th>
<th>Emission (nm)</th>
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</thead>
<tbody>
<tr>
<td>PE 488nm laser</td>
<td>496</td>
<td>578</td>
</tr>
<tr>
<td>PE 561nm laser</td>
<td>546</td>
<td>578</td>
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</tbody>
</table>

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

Buffer Solution: Phosphate buffered saline

Preservative Stabilisers:
- 0.09% Sodium Azide (NaN₃)
- 1% Bovine Serum Albumin
- 5% Sucrose

Immuneon: Chimaeric CRD4-7-Fc protein
Fusion Partners
Spleen cells from immunised Fischer rats were fused with cells of the Y3 myeloma cell line

Specificity
Rat anti mouse CD206 antibody, clone MR5D3 recognizes the mouse mannose receptor, a ~175 kDa type 1 membrane glycoprotein that is also known as CD206. CD206 is expressed on most tissue macrophages, certain endothelial cells and in vitro derived dendritic cells (Zamze et al. 2002).

The mannose receptor, CD206, is composed of a N-terminal cysteine-rich domain, a fibronectin type II domain, eight tandemly arranged C-type lectin domains (CTLD), a transmembrane domain, and a cytoplasmic domain. The terminal cysteine-rich domain binds sulfated sugars, and the CTLD recognizes carbohydrates terminating in mannose, fucose and N-acetylglucosamine, all sugars found on microorganisms and on some endogenous proteins (Su et al. 2005).

Rat anti mouse CD206 antibody, clone MR5D3 has been reported to be non-inhibitory for the binding of the mannose receptor to carbohydrate ligands (Zamze et al. 2002). Clone MR5D3 has also been shown to work in Western Blot (Martinez-Pomares et al. 2003 and Su et al. 2005).

Flow Cytometry
Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.

The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B).

References


### Storage
Prior to reconstitution store at +4°C.
After reconstitution store at +4°C.
DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

### Shelf Life
12 months from date of reconstitution.

### Health And Safety Information

### Regulatory
For research purposes only

### Related Products
**Recommended Useful Reagents**

- MOUSE SEROBLOCK FcR (BUF041A)
- MOUSE SEROBLOCK FcR (BUF041B)

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