Datasheet: MCA2392A488T

Description: RAT ANTI MOUSE CD301:Alexa Fluor® 488

Specificity: CD301

Other names: MACROPHAGE GALACTOSE SPECIFIC LECTIN

Format: ALEXA FLUOR® 488

Product Type: Monoclonal Antibody

Clone: ER-MP23

Isotype: IgG2a

Quantity: 25 TESTS/0.25ml

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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<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>Neat - 1/5</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 in their own system using appropriate negative/positive controls.

Target Species

Mouse

Product Form

Purified IgG conjugated to Alexa Fluor®488- 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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</thead>
<tbody>
<tr>
<td>Alexa Fluor®488</td>
<td>495</td>
<td>519</td>
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</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
1% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.05 mg/ml

Immunogen

Balb/c macrophage precursor cell hybrids.

Fusion Partners

Cells from immunised rats were fused with cells of the rat Y3-Ag1.2.3 myeloma cell line.
**Specificity**

*Rat anti Mouse CD301 antibody, clone ER-MP23* recognizes murine CD301, a ~38 kDa cell surface protein, otherwise known as macrophage galactose N-acetylgalactosamine lectin (MGL) or dendritic cell asialoglycoprotein (DC-ASGPR).

In mice, CD301 is predominantly expressed on mature macrophages found associated with a wide range of connective tissues including macrophages in the dermis and the pancreas. Clone ER-MP23 also detects a population of dendritic cells in lymphoid tissue, which are probably recent immigrants from peripheral connective tissue sites. Expression of CD301 is induced by alternative (i.e. IL-4/IL-13 mediated) activation of macrophages and dendritic cells, but not all CD301 positive cells are necessarily IL-4/IL-13 stimulated.

*Rat anti Mouse CD301 antibody, clone ER-MP23* is reported to block the function of mouse CD301 (*Dupasquier et al. 2006*). *Rat anti Mouse CD301 antibody, clone ER-MP23* binds both MGL1 and MGL2 homologues.

**Flow Cytometry**

Use 10ul of the suggested working dilution to label $10^6$ 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. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody.

**Shelf Life**

18 months from date of despatch.

**Acknowledgements**

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**Health And Safety Information**

Material Safety Datasheet documentation #10041 available at:

Related Products

**Recommended Negative Controls**

RAT IgG2a NEGATIVE CONTROL: Alexa Fluor® 488 (MCA1212A488)

**Recommended Useful Reagents**

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