Datasheet: MCA1322A700

Description: RAT ANTI MOUSE CD204: Alexa Fluor® 700

Specificity: CD204

Other names: SCAVENGER RECEPTOR TYPE I/II

Format: ALEXA FLUOR® 700

Product Type: Monoclonal Antibody

Clone: 2F8

Isotype: IgG2b

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>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>
<td>*</td>
<td></td>
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<td>Neat - 1/10</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.

Target Species

Mouse

Species Cross Reactivity

Reacts with: Pig, Channel catfish

N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Purified IgG conjugated to Alexa Fluor 700 - 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>Alexa Fluor®700</td>
<td>702</td>
<td>723</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 (NaN₃)

1% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.05 mg/ml

Immunogen

Raw 264 cell line
Spleen cells from immunised AO rats were fused with cells of the Y3 rat myeloma cell line.

**Specificity**

Rat anti Mouse CD204 antibody, clone 2F8 recognizes the murine scavenger receptor class A (SRA), type I and II, also known as CD204. CD204 is expressed by tissue macrophages and functions both as an endocytic receptor for lipoproteins and as an adhesion receptor for macrophages binding to ligand rich tissues e.g. atherosclerotic lesions. Clone 2F8 inhibits the uptake of acetylated low-density lipoproteins and also inhibits divalent cation independent adhesion (Fraser et al. 1993).

Rat anti Mouse CD204 antibody, clone 2F8 recognizes an epitope within SRA that is polymorphic in the SRA from C57BL/6 mice. Clone 2F8 is therefore unsuitable for use with the C57BL/6 mouse strain (Daugherty et al. 2000).

**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**

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. Should this product contain a precipitate we recommend microcentrifugation before use

**Guarantee**

12 months from date of despatch

**Acknowledgements**

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**Health And Safety Information**

Material Safety Datasheet documentation #10041 available at:


**Regulatory**

For research purposes only

### Related Products

**Recommended Useful Reagents**

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

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<tr>
<th>North &amp; South America</th>
<th>Worldwide</th>
<th>Europe</th>
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**Printed on 20 May 2019**

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