Datasheet: MCA275G

Description: MOUSE ANTI RAT CD11b

Specificity: CD11b

Other names: INTEGRIN ALPHA M CHAIN, MAC-1

Format: Purified

Product Type: Monoclonal Antibody

Clone: OX-42

Isotype: IgG2a

Quantity: 1 mg

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.abdserotec.com/protocols.

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<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tr>
<td>Flow Cytometry</td>
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<td>Immunohistology - Frozen</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.

(1)OX-42 is reported to be suitable for paraffin-embedded sections following PLP fixation (Whiteland et al., 1995).

Target Species: Rat

Product Form: Purified IgG - liquid

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

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml

Immunogen: Resident rat peritoneal macrophages.

Fusion Partners: Spleen cells from immunised BALB/c mice were fused with cells of the NSO/U mouse myeloma.
Specificity

Mouse anti Rat CD11b, clone OX-42, recognizes rat CD11b, also known as integrin alpha-M, the receptor for the iC3b component of complement. CD11b is a 1151 amino acid single pass type 1 transmembrane glycoprotein possessing a single VWFA domain and multiple FG-GAP repeats. CD11b is expressed on most macrophages, including resident and activated peritoneal macrophages and Kupffer cells and around 35% of alveolar macrophages. The antibody also labels dendritic cells, granulocytes and microglia in the brain (Robinson et al. 1986).

Mouse anti Rat CD11b, clone OX-42 is reported to inhibit complement mediated rosettes (Robinson et al. 1986) as well as inhibit myelin binding and uptake (van der Laan et al. 1996).

Flow Cytometry

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

References

16. Tchoukalova, Y.D. et al. (2012) In vivo adipogenesis in rats measured by cell kinetics in adipocytes and plastic-adherent stroma-vascular cells in response to high-fat diet and...
thiazolidinedione, *Diabetes, 61: 137-44*.

**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. 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**


**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

- HuCAL Anti Mouse IgG2a (HCA037...): FITC, HRP
- Rabbit Anti Mouse IgG (STAR8...): DyLight®800
- Goat Anti Mouse IgG (STAR76...): RPE
- Goat Anti Mouse IgG (STAR77...): HRP
- Rabbit Anti Mouse IgG (STAR9...): FITC
- Goat Anti Mouse IgG IgA IgM (STAR87...): Alk. Phos., HRP
- Rabbit Anti Mouse IgG (STAR12...): RPE
- Rabbit Anti Mouse IgG (STAR13...): HRP
- Goat Anti Mouse IgG (Fc) (STAR120...): FITC, HRP
- Goat Anti Mouse IgG (STAR70...): FITC
- Goat Anti Mouse IgG (H/L) (STAR117...): Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®800, FITC, HRP