Datasheet: MCA341B

Description: MOUSE ANTI RAT CD68: Biotin
Specificity: CD68
Other names: ED1, MACROSIALIN
Format: Biotin
Product Type: Monoclonal Antibody
Clone: ED1
Isotype: IgG1
Quantity: 100 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.abdserotec.com/protocols.

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<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
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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 control.

* Results maybe enhanced using membrane permeabilisation. Serotec recommends the use of Leucoperm™ (Product Code BUF09) for this purpose.

Target Species
Rat

Species Cross Reactivity
Reacts with: Bovine
Does not react with: Horse

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

Product Form
Purified IgG conjugated to Biotin - liquid

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
1% Bovine Serum Albumin

Approx. Protein Concentrations
IgG concentration 0.1 mg/ml

Immunogen
Rat spleen cells
Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0-Ag14 mouse myeloma cell line.

**Specificity**

Mouse anti rat CD68, clone ED1 recognizes the rat ED1 antigen, a heavily glycosylated protein of 90-110 KDa, also known as rat CD68 (Dijkstra et al. 1985).

The ED1 antigen is expressed on most macrophages populations, as well as on monocytes and is considered as a pan-macrophage marker in the rat (Damoiseaux et al. 1994). ED1 is expressed predominantly on the lysosomal membrane and lightly on the cell surface (Dijkstra et al. 1985).

The expression of ED1 antigen being predominantly cytoplasmic (Dijkstra et al. 1985), flow cytometry results are improved by the use of a membrane permeabilization procedure, such as Leucoperm, prior to staining.

**Flow Cytometry**

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

**References**

14. Chiu, T.L. et al. (2012) The treatment of glioblastoma multiforme through activation of...
microglia and TRAIL induced by rAAV2-mediated IL-12 in a syngeneic rat model. *J Biomed Sci.* 19: 45.


**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**

STREPTAVIDIN (STAR119...) **APC**