

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.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen	■			1/10

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. antibodies.

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	0.09% Sodium Azide
Stabilisers	1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Rat spleen cells
External Database	UniProt:

Links

[Q4FZY1](#) [Related reagents](#)

Fusion Partners

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 10⁶ cells in 100ul.

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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 Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Biotin \(MCA1209B\)](#)

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