

Datasheet: MCA341GA

Description:	MOUSE ANTI RAT CD68
Specificity:	CD68
Other names:	ED1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	ED1
Isotype:	IgG1
Quantity:	0.1 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.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	▪			1/50 - 1/100
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (2)	▪			
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			
Immunofluorescence	▪			

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.

(1) **Membrane permeabilization is required for this application. The use of Leucoperm (Product Code [BUF09](#)) is recommended for this purpose.**

(2) **This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase**

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. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or

personal communications from the originators. Please refer to references indicated for further information.

Product Form	Purified IgG - 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
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Rat spleen cells.
External Database Links	UniProt: Q4FZY1 Related reagents
RRID	AB_566872
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the SP2/0-Ag14 mouse myeloma cell line.
Specificity	<p>Mouse anti rat CD68 antibody, clone ED1 recognizes the rat ED1 antigen, a heavily glycosylated protein of ~90 -110 kDa, also known as rat CD68 (Dijkstra et al. 1985).</p> <p>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).</p> <p>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.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
Western Blotting	This clone is suitable for use in western blotting applications. Bio-Rad recommend MCA341R for this purpose.
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Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
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