

Datasheet: MCA74FA

Description:	RAT ANTI MOUSE CD11b:FITC
Specificity:	CD11b
Other names:	INTEGRIN ALPHA M CHAIN, MAC-1
Format:	FITC
Product Type:	Monoclonal Antibody
Product Type: Clone:	Monoclonal Antibody M1/70.15
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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	-			

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.

Target Species	Mouse				
Species Cross Reactivity	Reacts with: Human, Rabbit N.B. Antibody reactivity and working conditions may vary between specie Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - Ii				
roduct Form					
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)		
nux EX Em	FITC	490	525		
reparation	Purified IgG prepare	d by affinity chromatog	raphy on Protein A f		
uffer Solution	Phosphate buffered	saline			
eservative	0.09% Sodium Azide	9			
abilisers	1% Bovine Serun	n Albumin			
pprox. Protein oncentrations	IgG concentration 0.	1 mg/ml			
lmmunogen	T cell enriched spler	nocytes from B10 mice.			

External Database Links

UniProt:

P05555 Related reagents

Entrez Gene:

16409 Itgam Related reagents

Fusion Partners

Spleen cells from immunised DA rats were fused with cells of the NS1/1.Ag4.1 mouse myeloma cell line.

Specificity

Rat anti Mouse CD11b antibody, clone M1/70.15 recognizes the murine CD11b cell surface antigen also known as the alpha M integrin chain or MAC-1, a differentiation antigen expressed by granulocytes, monocytes, NK cells and tissue macrophages.

The expression of CD11b increases during monocyte maturation and expression levels vary on tissue macrophages. Peritoneal macrophages are reported to express higher levels of CD11b than splenic macrophages.

Rat anti Mouse CD11b antibody, clone M1/70.15 has been reported to block iC3b binding to its receptor (Beller et al. 1982).

Rat anti Mouse CD11b antibody, clone M1/70.15 has been reported to as being suitable for use on PLP fixed paraffin embedded tissue but has not been tested for use on formalin fixed tissue (Whiteland et al. 1995).

This product is routinely tested in flow cytometry on mouse peritoneal macrophages.

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

The Fc region of monoclonal antibodies may bind non-specifically via the Fc region to cells expressing low affinity Fc receptors. Non-specific FcR binding may be reduced by using SeroBlock reagent.

References

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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. 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.

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

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