

CD11b/c Monoclonal Antibody (OX-42), FITC

Catalog NumberMA5-17509

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Rat
Host/Isotope	Mouse / IgG2a	Published species	Rat, Not Applicable
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	0.1 µg/1x10^6 cells
Clone	OX-42	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Immunogen	Rat Peritoneal Macrophages		
Conjugate	FITC		
Form	Liquid		
Concentration	0.1 mg/mL		
Purification	Protein G		
Storage buffer	PBS with 4-5mg/mL BSA		
Contains	0.02% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles. Store in the dark.		

Background/Target Information

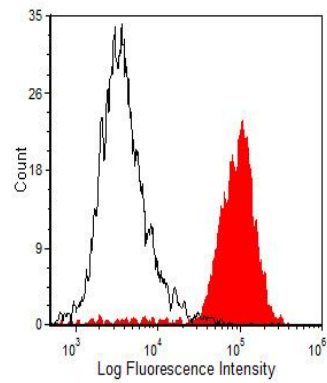
Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. CD11b is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement coated particles. It is identical to CR3, the receptor for the iC3b fragment of the third complement component. CD11b is also a receptor for fibrogen, factor X and ICAM1. It recognizes P1 and P2 peptides of fibrogen gamma chain. The Mac1 CD11b antigen is present on macrophages, granulocytes, natural killer cells, blood monocytes. CD11b is expressed on 8% spleen cells, 44% bone marrow cells and less than 1% thymocytes and is commonly used as a microglial marker in nervous tissue. CD11c encodes the integrin alpha X chain protein. This protein combines with the beta 2 chain (ITGB2) to form a leukocyte-specific integrin referred to as inactivated-C3b (iC3b) receptor 4 (CR4). The alpha X beta 2 complex seems to overlap the properties of the alpha M beta 2 integrin in the adherence of neutrophils and monocytes to stimulated endothelium cells, and in the phagocytosis of complement coated particles. Mutations affecting the CD11b/c gene lead to systemic lupus erythematosus 6.

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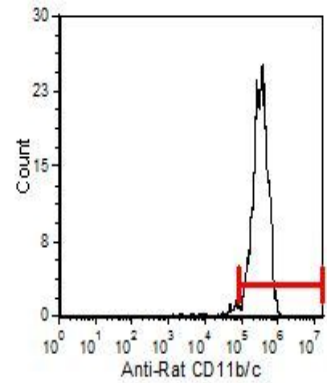
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CD11b/c Antibody (MA5-17509) in Flow

Flow cytometric analysis of Wistar rat peritoneal macrophages were stained using a CD11b/c monoclonal antibody (Product # MA5-17509) (filled histogram) or mouse IgG2a isotype control (open histogram).



CD11b/c Antibody (MA5-17509) in Flow

Flow cytometric analysis of Peritoneal Macrophages staining using anti-CD11b/c Monoclonal Antibody (Product # MA5-17509) at a 0.1 µg/10^6 cells dilution.

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