





## CD11b Monoclonal Antibody (ICRF44)

Catalog Number MA5-16725 Product data sheet

Details		Species Reactivity	
Size	1 mg	Species reactivity	Human, Non-human primate
Host/Isotope	Mouse / IgG1	Published species	Not Applicable
Class	Monoclonal	Tested Applications	Dilution *
Туре	Antibody	Flow Cytometry (Flow)	1:50-1:100
Clone	ICRF44	Functional Assay (FN)	Assay-dependent
Immunogen	Rheumatoid synovial cells and human monocytes	Immunohistochemistry (Frozen) (IHC (F))	1:50-1:500
Conjugate	Unconjugated	Immunoprecipitation (IP)	Assay-dependent
Form	Liquid	Published Applications	
Concentration	1 mg/mL	Flow Cytometry (Flow)	See 1 publications below
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own	

## **Product specific information**

This antibody does not react with cat. The epitope recognized by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. We recommend the use of acetone fixation for frozen sections. A suggested positive control for immunohistochemical applications is human tonsil.

experiment using appropriate negative and positive controls

## Background/Target Information

CD11b (integrin alpha-M, ITGAM, integrin alpha-X, ITGAX) is a 165 kDa adhesion molecule that associates non-covalently with integrin beta-2 (CD18). The CD11b/CD18 heterodimeric complex is also known as integrin alpha-M beta-2, Mac-1, and CR3 (complement receptor 3). CD11b is expressed on the surface of monocytes/macrophages, granulocytes, activated lymphocytes, a subset of NK cells, a subset of dendritic cells, and microglia in the brain. CD11b/CD18 functions as the receptor for ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4 (CD242), CD14, CD50, CD23, heparin, iC3b, fibrinogen, and Factor X -these adhesions are critical for cell-cell and cell-matrix interactions. CD11b is expressed on 8% of spleen cells, 44% of bone marrow cells, and less than 1% of thymocytes, and is commonly used as a microglial marker in nervous tissue. The expression of CD11b increases during monocyte maturation and expression levels vary on tissue macrophages. Further, peritoneal macrophages are reported to express higher levels of CD11b than splenic macrophages. Diseases associated with CD11b dysfunction include systemic lupus erythematosus 6 and ITGAM-related susceptibility to systemic lupus erythematosus.

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## PubMed References For CD11b Monoclonal Antibody (ICRF44) 1 Flow Cytometry References Species / Dilution Summary MA5-16725 was used in flow cytometry to develop a xenotransplantation system using human hematopoietic stem cells and mice Not Applicable / Not Cited Nature protocols ( 2009; 3: 1932) "In vivo evaluation of human hematopoiesis through xenotransplantation of purified hematopoietic stem cells from umbilical cord blood." Author(s):Park CY,Majeti R,Weissman IL PubMed Article URL:http://dx.doi.org/10.1038/nprot.2008.194

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