

CD11b Monoclonal Antibody (M1/70), PE-Cyanine5

Catalog NumberA26002

Product data sheet

Details		Species Reactivity	
Size	25 µg	Species reactivity	Human, Mouse
Host/Isotope	Rat / IgG2b	<div>Tested ApplicationsDilution * Flow Cytometry (Flow)Assay-dependent</div>	
Class	Monoclonal		
Type	Antibody	<div>* 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.</div>	
Clone	M1/70		
Immunogen	C57BL/10 splenic T cells and concanavalin A stimulated C57BL /10 splenocytes.		
Conjugate	PE-Cyanine5		
Form	Liquid		
Storage Conditions	4° C		

Background/Target Information

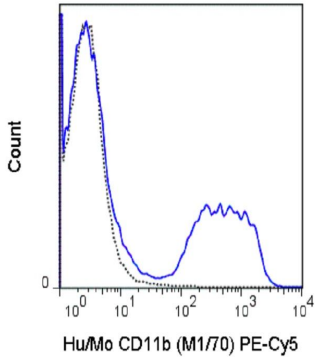
CD11b (integrin alpha-M, ITGAM, integrin alpha-X, ITGAX) is a 165 kDa adhesion molecule that associates non-covalently with integrin beta-2 (CD18). The CD11b/CD18 heterodimeric complex is also known as integrin alpha-M beta-2, Mac-1, and CR3 (complement receptor 3). CD11b is expressed on the surface 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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CD11b Antibody (A26002) in Flow

C57Bl/6 bone marrow cells stained with 0.125 µg PE-Cy5 Anti-Hu/Ms CD11b (A26002) (solid line) or 0.125 µg PE-Cy5 Rat IgG2b isotype control (dashed line)

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