

**Product Data Sheet**

□ Cat # RP-912

Recombinant Human CD11b

Size: □ 2 ug

Integrin alpha M (ITGAM) is one protein subunit that forms the heterodimeric integrin alpha-M beta-2 ( $\alpha\text{M}\beta\text{2}$ ) molecule, also known as macrophage-1 antigen (Mac-1) or complement receptor 3 (CR3). ITGAM is also known as CR3A, and cluster of differentiation molecule 11B (CD11B). The second chain of  $\alpha\text{M}\beta\text{2}$  is the common integrin  $\beta\text{2}$  subunit known as CD18, and integrin  $\alpha\text{M}\beta\text{2}$  thus belongs to the  $\beta\text{2}$  subfamily (or leukocyte) integrins.

$\alpha\text{M}\beta\text{2}$  is expressed on the surface of many leukocytes involved in the innate immune system, including monocytes, granulocytes, macrophages, and natural killer cells. It mediates inflammation by regulating leukocyte adhesion and migration and has been implicated in several immune processes such as phagocytosis, cell-mediated cytotoxicity, chemotaxis and cellular activation. It is involved in the complement system due to its capacity to bind inactivated complement component 3b (iC3b). The ITGAM (alpha) subunit of integrin  $\alpha\text{M}\beta\text{2}$  is directly involved in causing the adhesion and spreading of cells but cannot mediate cellular migration without the presence of the  $\beta\text{2}$  (CD18) subunit. In genome wide association studies, single nucleotide polymorphisms in ITGAM had the strongest association with systemic lupus erythematosus, with an odds ratio of 1.65 for the T allele of rs9888739 and lupus.

**Form and Storage:**

CD11b Human Recombinant (aa 936-1154) expressed in E.coli (>95%, ~52 kDa ). It is supplied in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol. Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months.

**APPLICATION AND SUGGESTED DILUTIONS:**

ELISA, Inhibition Assays, Western Blotting. Users must optimize the appropriate concentration and conditions for each assay.

**USAGE:**

This item is for LABORATORY RESEARCH USE ONLY.

**Related Items**

Catalog#	ProdDescription
AB-13510	Rat Anti-Mouse CD11a IgG
AB-13610	Rat Anti-Mouse CD11b-FITC IgG
CD11aF-25	Anti-Human CD11a-FITC conjugate
CD11aP-25	Anti-Human CD11a-PE conjugate
CD11aPC-25	Anti-Human CD11a-PE-Cy5-conjugate
CD11aUL-100	Anti-Human CD11a, Unlabeled
CD11bF-100	Anti-Human CD11b-FITC conjugate
CD11bF-25	Anti-Human CD11b-FITC conjugate
CD11bP-100	Anti-Human CD11b-PE conjugate
CD11bP-25	Anti-Human CD11b-PE conjugate
CD11bPC-100	Anti-Human CD11b-PE-Cy5-conjugate
CD11bPC-25	Anti-Human CD11b-PE-Cy5-conjugate
CD11bUL-100	Anti-Human CD11b, Unlabeled
MCD011A-B	Anti-Mouse CD11a, Biotin (Clone 8-6.2)
(mouse IgG2a	
MCD011A-F	Anti-Mouse CD11a, FITC (Clone 8-6.2)
(mouse IgG2a	
MCD011A-M	Anti-Mouse CD11a, Purified (Clone 8-6.2)
(mouse IgG2a	
MCD011A-PE	Anti-Mouse CD11a, PE (Clone 8-6.2)
(mouse IgG2a	
MCD011B-B	Anti-Mouse CD11b, Biotin (Clone
M1/70.15) (rat IgG2b	
MCD011B-F	Anti-Mouse CD11b, FITC (Clone M1/70.15)
(rat IgG2b	
MCD011B-M	Anti-Mouse CD11b, No Azide (Clone
M1/70.15) (rat IgG2b	
MCD011B-PE	Anti-Mouse CD11b, PE (Clone M1/70.15)
(rat IgG2b	
MCD117-B	Anti-Mouse CD117, Biotin (Clone ACK4)
(rat IgG2a)	
MCD117-F	Anti-Mouse CD117, FITC (Clone ACK4)
(rat IgG2a)	
MCD117-M	Anti-Mouse CD117, Purified (Clone ACK4)
(rat IgG2a	
MCD117-PE	Anti-Mouse CD117, PE (Clone ACK4) (rat
IgG2a)	
RCD011A-F	Anti-Rat CD11a FITC (Clone WT.1) (mouse
IgG2a	
RCD011A-M	Anti-Rat CD11a Purified (Clone WT.1)
(mouse IgG2a	
RCD011A-PE	Anti-Rat CD11a PE (Clone WT.1) (mouse
IgG2a	
RCD011-B	Anti-Rat CD11a Biotin (Clone WT.1) (mouse
IgG2a	
RCD011BC-B	Anti-Rat CD11b/c Biotin (Clone OX-42)
(mouse IgG2a	
RCD011BC-F	Anti-Rat CD11b/c FITC (Clone OX-42)
(mouse IgG2a	
RCD011BC-M	Anti-Rat CD11b/c Purified (Clone OX-42)
(mouse IgG2a	
RCD011BC-PE	Anti-Rat CD11b/c PE (Clone OX-42) (mouse
IgG2a	
RP-912	Recombinant (E. coli) Human CD11b protein (936-1154)

RP-912 140326A