

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 (α M β 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 α M β 2 is the common integrin β 2 subunit known as CD18, and integrin α M β 2 thus belongs to the β 2 subfamily (or leukocyte) integrins.

α M β 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 α M β 2 is directly involved in causing the adhesion and spreading of cells but cannot mediate cellular migration without the presence of the β 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