

Anti-CD11b Picoband Antibody

Catalog # ABO11839

Product Information

Application	WB, IHC-P
Primary Accession	P11215
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Integrin alpha-M(ITGAM) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	3684
Other Names	Integrin alpha-M, CD11 antigen-like family member B, CR-3 alpha chain, Cell surface glycoprotein MAC-1 subunit alpha, Leukocyte adhesion receptor MO1, Neutrophil adherence receptor, CD11b, ITGAM, CD11B, CR3A
Calculated MW	127179
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Membrane; Single-pass type I membrane protein.
Tissue Specificity	Predominantly expressed in monocytes and granulocytes.
Source	Eukaryota
Protein Name	Integrin alpha-M
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E.coli-derived human CD11b recombinant protein (Position: F17-T382). Human CD11b shares 79% and 61% amino acid (aa) sequences identity with mouse and rat CD11b, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.

Storage	At -20° C for one year. After r° Constitution, at 4° C for one month. It° Can also be aliquotted and stored frozen at -20° C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the integrin alpha chain family.

Protein Information

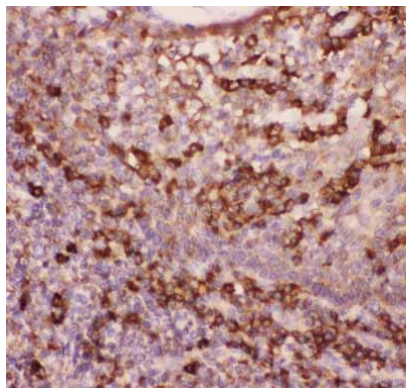
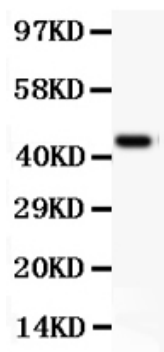
Name	ITGAM (HGNC:6149)
Synonyms	CD11B, CR3A
Function	Integrin ITGAM/ITGB2 is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles and pathogens (PubMed: 20008295 , PubMed: 9558116). It is identical with CR-3, the receptor for the iC3b fragment of the third complement component. It probably recognizes the R-G-D peptide in C3b. Integrin ITGAM/ITGB2 is also a receptor for fibrinogen and factor X. It recognizes P1 and P2 peptides of fibrinogen gamma chain. Regulates neutrophil migration (PubMed: 28807980). In association with beta subunit ITGB2/CD18, required for CD177-PRTN3-mediated activation of TNF primed neutrophils (PubMed: 21193407). Integrin ITGAM/ITGB2 is also a receptor for ICAM1 ligand ensuring adhesion between stimulated neutrophils and stimulated endothelial cells (PubMed: 1980124). May regulate phagocytosis-induced apoptosis in extravasated neutrophils (By similarity). May play a role in mast cell development (By similarity). Required with TYROBP/DAP12 in microglia to control production of microglial superoxide ions which promote the neuronal apoptosis that occurs during brain development (By similarity).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Membrane raft; Single-pass type I membrane protein
Tissue Location	Predominantly expressed in monocytes and granulocytes (PubMed:1346576). Expressed in neutrophils (at protein level) (PubMed:21193407).

Background

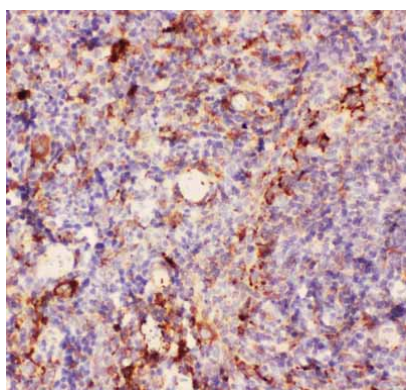
Integrin alpha M (ITGAM) is one protein subunit that forms the heterodimeric integrin alpha-M beta-2 (α M β 2) molecule, also known as macrophage-1 antigen (Mac-1) or complement receptor 3 (CR3). It is mapped to 16p11.2. ITGAM has a role in vascular repair after mechanical arterial injury. It is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles. What's more, ITGAM probably recognizes the R-G-D peptide in C3b, and it is also a receptor for fibrinogen, factor X and ICAM1.

Images

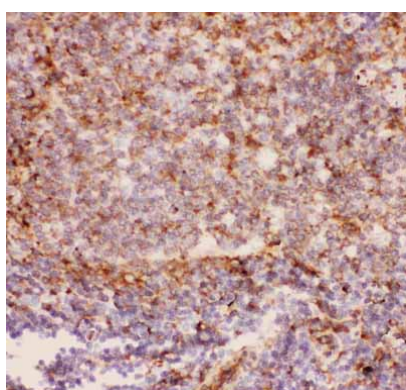
Anti-CD11b Picoband antibody , ABO11839-1.jpgAll lanes:
Anti CD11B (ABO11839) at 0.5ug/mlWB: Recombinant
Human CD11B Protein 0.5ngPredicted bind size:
45KDObserved bind size: 45KD



Anti-CD11b Picoband antibody , ABO11839-2.JPGIHC(P):
Human Tonsil Tissue



Anti-CD11b Picoband antibody , ABO11839-3.JPGIHC(P):
Mouse Spleen Tissue



Anti-CD11b Picoband antibody , ABO11839-4.JPGIHC(P):
Rat Spleen Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.