

Rabbit anti-Human CD11a Polyclonal Antibody | anti-ITGAL antibody

Anti-CD11a Antibody

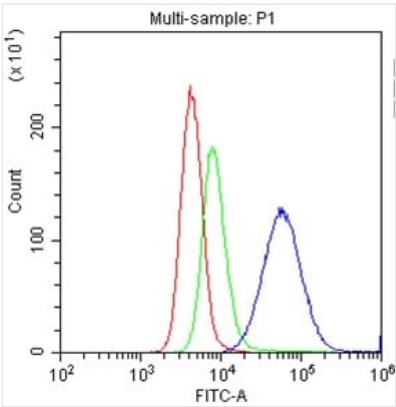
CATALOG # AAA46750	HOST Rabbit	REACTIVITY Human	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

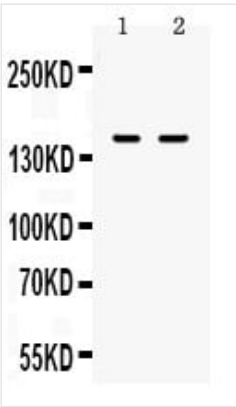
CD11a; Polyclonal Antibody; Anti-CD11a Antibody; Antigen CD11A; CD 11a; CD11 antigen-like family member A; CD11a antigen; Integrin alphaL; Integrin alpha-L; ITAL; ITGAL protein; LFA 1A; LFA1A; LFA-1A; P20701; integrin subunit alpha L; anti-ITGAL antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	1086
Applicable Applications for anti-ITGAL antibody	WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	E Coli-derived human CD11a recombinant protein (Position: F161-L349). Human CD11a shares 73.7% amino acid (aa) sequence identity with mouse CD11a.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of U937 cells using anti-CD11a antibody (AAA46750).Overlay histogram showing U937 cells stained with AAA46750 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD11a Antibody (AAA46750,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight 488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control."



WB (Western Blot)
Figure 1. Western blot analysis of CD11a using anti-CD11a antibody (AAA46750).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.lane 1: JURKAT cell lysates,lane 2: CEM whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CD11a antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CD11a at approximately 150KD. The expected band size for CD11a is at 129KD.

ADDITIONAL INFORMATION

Related Product Information for anti-ITGAL antibody	Rabbit IgG polyclonal antibody for Integrin alpha-L(ITGAL) detection. Background: CD11a, also known as ITGAL or LFA-1, is a human gene which functions in the immune system. It is mapped to 16p11.2. CD11a is involved in cellular adhesion and costimulatory signaling. It is the target of the drug efalizumab. CD11a encodes the integrin alpha L chain. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This I-domain containing alpha integrin combines with the beta 2 chain (ITGB2) to form the integrin lymphocyte function-associated antigen-1 (LFA-1), which is expressed on all leukocytes. CD11a plays a central role in leukocyte intercellular adhesion through interactions with its ligands, ICAMs 1-3 (intercellular adhesion molecules 1 through 3), and also functions in lymphocyte costimulatory signaling. It is one of the two components, along with CD18, which form lymphocyte function-associated antigen-1.
References	1. "Entrez Gene: ITGAL integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide)" 2. Marlin, S. D., Morton, C. C., Anderson, D. C., Springer, T. A. LFA-1 immunodeficiency disease: definition of the genetic defect and chromosomal mapping of alpha and beta subunits of the lymphocyte function-associated antigen 1 (LFA-1) by complementation in hybrid cells. J. Exp. Med. 164: 855-867, 1986.

NCBI AND UNIPROT INFORMATION

NCBI GI #	167466217
NCBI GeneID	3683
NCBI Accession #	NP_001107852.1
NCBI GenBank Nucleotide #	NM_001114380.1
UniProt Accession #	P20701; O43746; Q45H73; Q96HB1; Q9UBC8
Molecular Weight	119,224 Da
NCBI Official Full Name	integrin alpha-L isoform b
NCBI Official Synonym Full Names	integrin subunit alpha L

NCBI Official Symbol	ITGAL
NCBI Official Synonym Symbols	CD11A; LFA-1; LFA1A
NCBI Protein Information	integrin alpha-L
UniProt Protein Name	Integrin alpha-L
UniProt Gene Name	ITGAL
UniProt Synonym Gene Names	CD11A; LFA-1A

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cd11a-antibody-western-blot-elisa/46750>