

Rabbit ITGAL Polyclonal Antibody | anti-ITGAL antibody

ITGAL Antibody

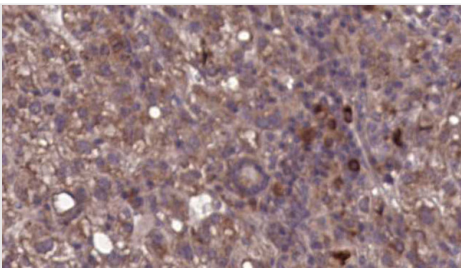
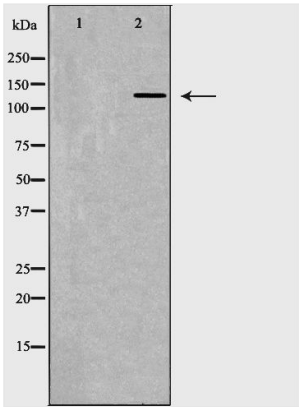
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326292	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ITGAL; Polyclonal Antibody; ITGAL Antibody; Lymphocyte function associated antigen; type 1; alpha subunit; Antigen CD11A (p180); lymphocyte function associated antigen 1; alpha polypeptide; Antigen CD11A; CD 11a; CD11 antigen-like family member A; CD11a; CD11a antigen; Integrin Alpha L; Integrin alpha-L; Integrin gene promoter; Integrin; alpha L (antigen CD11A (p180); alpha polypeptide); ITAL_HUMAN; Itgal; ITGAL protein; Leukocyte adhesion glycoprotein LFA 1 alpha chain; Leukocyte adhesion glycoprotein LFA-1 alpha chain; Leukocyte Adhesion Glycoprotein LFA1 Alpha Chain; Leukocyte function associated molecule 1 alpha chain; Leukocyte function-associated molecule 1 alpha chain; LFA 1 alpha (LFA1A); LFA 1 alpha; LFA 1; LFA 1A; LFA-1A; LFA1A; Ly15; Ly21; Lymphocyte function associated antigen 1; Lymphocyte Function Associated Antigen Type 1 alpha; lymphocyte function-associated antigen 1; p180; anti-ITGAL antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ITGAL antibody detects endogenous levels of total ITGAL
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1086
Applicable Applications for anti-ITGAL antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ITGAL
Subcellular Location	Membrane.
Tissue Specificity	Leukocytes.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326292 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of Hepg2 whole cell lysates, using ITGAL Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ITGAL antibody

Description: ITGAL 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. LFA-1 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. Two transcript variants encoding different isoforms have been found for this gene.

Function: Integrin alpha-L/beta-2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. Integrin alpha-L/beta-2 is also a receptor for F11R (PubMed:11812992, PubMed:15528364). Involved in a variety of immune phenomena including leukocyte-endothelial cell interaction, cytotoxic T-cell mediated killing, and antibody dependent killing by granulocytes and monocytes. Contributes to natural killer cell cytotoxicity (PubMed:15356110). Involved in leukocyte adhesion and transmigration of leukocytes including T-cells and neutrophils (PubMed:11812992). Required for generation of common lymphoid progenitor cells in bone marrow, indicating a role in lymphopoiesis (By similarity). Integrin alpha-L/beta-2 in association with ICAM3, contributes to apoptotic neutrophil phagocytosis by macrophages (PubMed:23775590).

Subunit Structure: Heterodimer of an alpha and a beta subunit (PubMed:12526797). Alpha-L associates with beta-2 (PubMed:12526797). Interacts with THBD (PubMed:27055590).

Post-translational Modifications: In resting T-cells, up to 40% of surface ITGAL is constitutively phosphorylated. Phosphorylation causes conformational changes needed for ligand binding and is necessary for activation by some physiological agents.

Similarity: The integrin I-domain (insert) is a VWFA domain (PubMed:2537322). Integrins with I-domains do not undergo protease cleavage. The I-domain is necessary and sufficient for interaction with ICAM1 and F11R (PubMed:15528364). Belongs to the integrin alpha chain family.

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	Observed: 129 kDa Predicted: 129 kDa
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/itgal-antibody-immunohistochemistry-western-blot-elisa/326292>