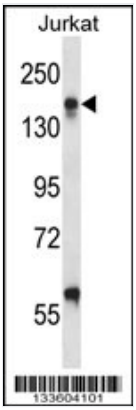
ITGAL Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ITGAL, Polyclonal Antibody
Full Product Name	ITGAL Antibody (Center)
Product Gene Name	anti-ITGAL antibody
Product Synonym Names	Integrin alpha-L; CD11 antigen-like family member A; Leukocyte adhesion glycoprotein LFA-1 alpha chain; LFA-1A; Leukocyte function-associated molecule 1 alpha chain; CD11a; ITGAL; CD11A
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This ITGAL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 722-751 amino acids from the Central region of human ITGAL.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	ITGAL peptide (MBS9220109) is used for blocking the activity of ITGAL antibody (MBS9212282)
Molecular Weight	128770
Immunogen Sequence Positions	722-751
OMIM	153370
3D Structure	ModBase 3D Structure for P20701
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-ITGAL antibody	Immunology; Signal Transduction
Applications Tested/Suitable for anti-ITGAL antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ITGAL antibody	WB~~1:1000

Related Product Information for anti-ITGAL antibody	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.
Product References and Citations for anti-ITGAL antibody	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Kuwano, Y., et al. Blood 116(4):617-624(2010) Ghannam, S., et al. J. Immunol. 185(1):302-312(2010) Quist, S.R., et al. Acta Derm. Venereol. 90(4):429-430(2010) Lipkin, S.M., et al. Cancer Prev Res (Phila) 3(5):597-603(2010)
Other Notes	Small volumes of anti-ITGAL antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ITGAL purchase	MBS9212282 is an antibody targeting ITGAL. Also known as ITGAL Antibody (Center). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ITGAL antibody
ITGAL Antibody (Center) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the ITGAL antibody detected the ITGAL protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ITGAL. It may not necessarily be applicable to this product.

NCBI GI #	167466217
NCBI GeneID	3683
NCBI Accession #	NP_001107852.1
NCBI Related Accession #	NP_002200.2
UniProt Primary Accession #	P20701
UniProt Secondary Accession #	O43746; Q45H73; Q96HB1; Q9UBC8
UniProt Related Accession #	P20701
GenBank Nucleotide #	NM_001114380.1
NCBI Official Full Name	integrin alpha-L isoform b
NCBI Official Synonym Full Names	integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide)

NCBI Official Symbol	ITGAL
NCBI Official Synonym Symbols	CD11A; LFA-1; LFA1A
UniProt Protein Name	Integrin alpha-L
UniProt Synonym Protein Names	CD11 antigen-like family member A; Leukocyte adhesion glycoprotein LFA-1 alpha chain; LFA-1A; Leukocyte function-associated molecule 1 alpha chain; CD_antigen: CD11a
Protein Family	Integrin
UniProt Gene Name	ITGAL
UniProt Synonym Gene Names	CD11A; LFA-1A
UniProt Entry Name	ITAL_HUMAN
NCBI Protein Information	integrin alpha-L
NCBI Summary for ITGAL	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. [provided by RefSeq, Jul 2008]
UniProt Comments for ITGAL	ITGAL: Integrin alpha-L/beta-2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. It is 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. Belongs to the integrin alpha chain family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Cell surface; Membrane protein, integral; Motility/polarity/chemotaxis; Cell adhesion Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: cell surface; membrane; plasma membrane; immunological synapse; intercellular junction; integrin complex; external side of plasma membrane Molecular Function: protein binding; protein heterodimerization activity; metal ion binding; protein complex binding; cell adhesion molecule binding; ICAM-3 receptor activity Biological Process: integrin-mediated signaling pathway; regulation of immune response; extracellular matrix organization and biogenesis; cell-matrix adhesion; activated T cell proliferation; positive regulation of calcium-mediated signaling; signal transduction; receptor clustering; heterophilic cell adhesion; leukocyte adhesion; T cell activation via T cell receptor contact with antigen bound to MHC molecule on antigen presenting cell; positive regulation of T cell proliferation; cell motility; cell adhesion; blood coagulation; inflammatory response; leukocyte migration
Research Articles on ITGAL	**1.** CD11a, CD11c, and CD18 gene polymorphisms and susceptibility to Behcet's disease in Koreans.
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