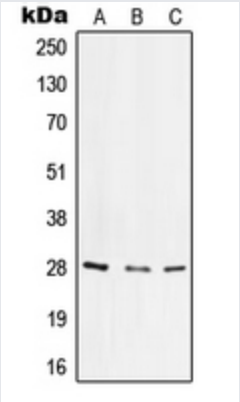
Cd49f Lc (ITGA6) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD49f LC (ITGA6), Polyclonal Antibody
Full Product Name	Anti-CD49f LC Antibody
Product Gene Name	anti-ITGA6 antibody
Product Synonym Names	Integrin alpha-6; CD49 antigen-like family member F; VLA-6; CD49f
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of CD49f LC protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Antibody/Peptide Pairs	CD49f LC peptide (MBS823719) is used for blocking the activity of CD49f LC antibody (MBS820371)
Molecular Weight	122,358 Da
OMIM	gene 226730
3D Structure	ModBase 3D Structure for P23229
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human CD49f LC. The exact sequence is proprietary.
Applications Tested/Suitable for anti-ITGA6 antibody	Western Blot (WB)
Application Notes for anti-ITGA6 antibody	WB (1/500 - 1/1000)
Related Product Information for anti-ITGA6 antibody	MBS820371 is an antibody targeting ITGA6. Also known as Anti-CD49f LC Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to CD49f LC
Other Notes	Small volumes of anti-ITGA6 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.



Western Blot (WB) of anti-ITGA6 antibody
Western blot analysis of CD49f LC expression in HeLa UV-treated (A), SP2/0 UV-treated (B), PC12 LPS-treated (C) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ITGA6. It may not necessarily be applicable to this product.

NCBI GI #	119395742
NCBI GeneID	3655
NCBI Accession #	NP_000201.2
UniProt Primary Accession #	P23229
UniProt Secondary Accession #	Q08443; Q0MRC7; Q14646; Q16508; Q53RX7; Q59HB7; B2RMU9; B4DG69; B4DKB8; C4AM96; G5E9H1
UniProt Related Accession #	P23229
GenBank Nucleotide #	NM_000210.2
NCBI Official Full Name	integrin alpha-6 isoform b
NCBI Official Synonym Full Names	integrin, alpha 6
NCBI Official Symbol	ITGA6
NCBI Official Synonym Symbols	CD49f; VLA-6; ITGA6B
UniProt Protein Name	Integrin alpha-6
UniProt Synonym Protein Names	CD49 antigen-like family member F; VLA-6; CD_antigen: CD49fCleaved into the following 3 chains:Integrin alpha-6 heavy chain; Integrin alpha-6 light chain; Processed integrin alpha-6; Alpha6p
Protein Family	Integrin
UniProt Gene Name	ITGA6
UniProt Synonym Gene Names	Alpha6p
UniProt Entry Name	ITA6_HUMAN
NCBI Protein Information	integrin alpha-6; integrin alpha6B; CD49 antigen-like family member F
NCBI Summary for ITGA6	The ITGA6 protein product is the integrin alpha chain alpha 6. Integrins are integral cell-surface proteins composed of an alpha chain and a beta chain. A given chain may combine with multiple partners resulting in different integrins. For example, alpha 6 may combine with beta 4 in the integrin referred to as TSP180, or with beta 1 in the integrin VLA-6. Integrins are known to participate in cell adhesion as well as cell-surface mediated signalling. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for ITGA6	ITGA6: Integrin alpha-6/beta-1 is a receptor for laminin on platelets. Integrin alpha-6/beta-4 is a receptor for laminin in epithelial cells and it plays a critical structural role in the hemidesmosome. Heterodimer of an alpha and a beta subunit. The alpha subunit is composed of an heavy and a light chain linked by a disulfide bond. Alpha-6 associates with either beta-1 or beta-4. Interacts with HPS5. Interacts with RAB21. Integrin alpha-6/beta-4 is predominantly expressed by epithelia. Isoforms containing segment X1 are ubiquitously expressed. Isoforms containing segment X1X2 are expressed in heart, kidney, placenta, colon, duodenum, myoblasts and myotubes, and in a limited number of cell lines; they are always coexpressed with the ubiquitous isoform containing segment X1. In some tissues (e.g. Salivary gland), isoforms containing cytoplasmic segment A and isoforms containing segment B are detected while in others, only isoforms containing one cytoplasmic segment are found (segment A in epidermis and segment B in kidney). Belongs to the integrin alpha chain family. 8 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Cell adhesion; Motility/polarity/chemotaxis; Receptor, misc. Chromosomal Location of Human Ortholog: 2q31.1 Cellular Component: cell-cell adherens junction; focal adhesion; cell surface; hemidesmosome; basal plasma membrane; plasma membrane; basement membrane; external side of plasma membrane; filopodium Molecular Function: integrin binding; protein binding; metal ion binding; laminin binding Biological Process: skin development; integrin-mediated signaling pathway; extracellular matrix organization and biogenesis; filopodium formation; positive regulation of apoptosis; cell-matrix adhesion; cell-substrate adhesion; hemidesmosome assembly; cell-cell adhesion; gut development; cellular response to extracellular stimulus; brown fat cell differentiation; positive regulation of cell-cell adhesion; cell-substrate junction assembly; cell adhesion mediated by integrin; positive regulation of transcription from RNA polymerase II promoter; blood coagulation; leukocyte migration; positive regulation of phosphorylation Disease: Epidermolysis Bullosa Junctionalis With Pyloric Atresia
Research Articles on ITGA6	**1.** alpha6-integrin is required for hemangioma stem cellsadherence to laminin, vessel formation in vivo, and for homing to the liver.
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