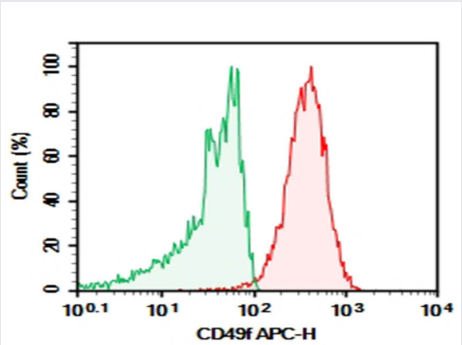
CD49f Antibody – Rat

PRODUCT OVERVIEW

Product Name	CD49f, Antibody
Full Product Name	AF/LE Purified Anti-Human CD49f Antibody [GoH3]
Product Gene Name	anti-CD49f antibody
Product Synonym Names	ITA; ITGA; Integrin alpha; Processed integrin alpha; alpha; VLA; CD49f; ITGA6B; VLA-6; Integrin alpha 6; ITGA6; alpha 6; Alpha6p; CD49 antigen-like family member F; Integrin; Integrin alpha6B; ITA6; Processed integrin alpha-6; VLA 6; alpha-6 integrin-n; VLA-6alpha
Isotype	IgG2a, kappa
Clone Number	GoH3
Host	Rat
Species Reactivity	Human
Preparation and Storage	Store at 4 degree C valid for 12 months or -20 degree C valid for long term storage, avoid freeze/thaw cycles. This preparation contains no preservatives, thus it should be handled under aseptic conditions.
Molecular Weight	126,633 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (173292314..173371181). Location: 2q31.1
OMIM	147556
3D Structure	ModBase 3D Structure for P23229
Conjugation	None (AF/LE)
Product Categories/Family for anti-CD49f antibody	Antibodies and Reagents; Primary Antibodies; Flow Cytometry Antibodies; Stem Cells; Signal Transduction; Developmental Biology; G protein signaling; PI3K-Akt Signaling Pathway; MAPK-Erk Signaling Pathway; Cytoskeleton; CDs; Embryonic Stem Cells; Hematopoi
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD49f antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-CD49f antibody	MBS2585271 is an antibody targeting CD49f. Also known as AF/LE Purified Anti-Human CD49f Antibody [GoH3]. Reactive in Human. Host: Rat.
Other Notes	Small volumes of anti-CD49f 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.



Flow Cytometry (FC/FACS) of anti-CD49f antibody
Verified Samples in FCM: Human peripheral blood platelet cell

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD49f. 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; Q86VL6; B2RMU9; B4DG69; B4DKB8; C4AM96
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
Protein Family	Integrin
UniProt Gene Name	ITGA6
UniProt Entry Name	ITA6_HUMAN
NCBI Protein Information	integrin alpha-6; integrin alpha6B; CD49 antigen-like family member F
NCBI Summary for CD49f	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 CD49f	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: Motility/polarity/chemotaxis; Receptor, misc.; Membrane protein, integral; Cell adhesion Chromosomal Location of Human Ortholog: 2q31.1 Cellular Component: cell surface; cell-cell adherens junction; focal adhesion; hemidesmosome; plasma membrane; basal plasma membrane; basement membrane; filopodium; external side of plasma membrane Molecular Function: integrin binding; protein binding; metal ion binding; laminin binding Biological Process: integrin-mediated signaling pathway; skin development; extracellular matrix organization and biogenesis; filopodium formation; positive regulation of apoptosis; cell-matrix adhesion; cell-substrate adhesion; cell-cell adhesion; hemidesmosome assembly; 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 CD49f	**1.** Interaction between alpha6 integrin and E-cadherin drives liver metastasis of colorectal cancer cells through hepatic angiopoietin-like 6.
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