CD61 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD61, Monoclonal Antibody
Full Product Name	Mouse anti-CD61 Antibody
Product Gene Name	anti-CD61 antibody
Product Synonym Names	GP3A; Integrin beta-3; Platelet membrane glycoprotein IIIa; GPIIIa; CD61
Clonality	Monoclonal
Isotype	Mouse IgG
Host	Mouse
Species Reactivity	Human
Form/Format	Mouse IgG. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	87,058 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (45331208..45390077). Location: 17q21.32
OMIM	173470
3D Structure	ModBase 3D Structure for P05106
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within human CD61. The exact sequence is proprietary.
Product Categories/Family for anti-CD61 antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-CD61 antibody	Immunohistochemistry (IHC)
Application Notes for anti-CD61 antibody	IHC: 1:100-1:300
Related Product Information for anti-CD61 antibody	MBS4514035 is an antibody targeting CD61. Also known as Mouse anti-CD61 Antibody. Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-CD61 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD61. It may not necessarily be applicable to this product.

NCBI GI #	47078292
NCBI GeneID	3690

NCBI Accession #	NP_000203.2
UniProt Primary Accession #	P05106
UniProt Secondary Accession #	O15495; Q12806; Q13413; Q14648; Q16499; A0PJW2; D3DXJ8
UniProt Related Accession #	P05106
GenBank Nucleotide #	NM_000212.2
NCBI Official Full Name	integrin beta-3
NCBI Official Synonym Full Names	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)
NCBI Official Symbol	ITGB3
NCBI Official Synonym Symbols	GT; CD61; GP3A; BDPLT2; GPIIIa; BDPLT16
UniProt Protein Name	Integrin beta-3
UniProt Synonym Protein Names	Platelet membrane glycoprotein IIIa
Protein Family	Integrin
UniProt Gene Name	ITGB3
UniProt Synonym Gene Names	GP3A; GPIIIa
UniProt Entry Name	ITB3_HUMAN
NCBI Protein Information	integrin beta-3; platelet membrane glycoprotein IIIa
NCBI Summary for CD61	The ITGB3 protein product is the integrin beta chain beta 3. 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. Integrin beta 3 is found along with the alpha IIb chain in platelets. Integrins are known to participate in cell adhesion as well as cell-surface mediated signalling. [provided by RefSeq, Jul 2008]

UniProt Comments for CD61	ITGB3: integrin alpha-V/beta-3 is a receptor for cytotactin, fibronectin, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin, vitronectin and von Willebrand factor. Integrin alpha-IIB/beta-3 is a receptor for fibronectin, fibrinogen, plasminogen, prothrombin, thrombospondin and vitronectin. Integrins alpha-IIB/beta-3 and alpha-V/beta-3 recognize the sequence R-G-D in a wide array of ligands. Integrin alpha-IIB/beta-3 recognizes the sequence H-H-L-G-G-G-A-K-Q-A-G-D-V in fibrinogen gamma chain. Following activation integrin alpha- IIB/beta-3 brings about platelet/platelet interaction through binding of soluble fibrinogen. This step leads to rapid platelet aggregation which physically plugs ruptured endothelial surface. Protein type: Membrane protein, integral; Motility/polarity/chemotaxis; Cell adhesion Chromosomal Location of Human Ortholog: 17q21.32 Cellular Component: filopodium membrane; platelet alpha granule membrane; focal adhesion; cell surface; microvillus membrane; integral to plasma membrane; plasma membrane; melanosome; integrin complex; nucleus; receptor complex Molecular Function: identical protein binding; protein binding; protease binding; extracellular matrix binding; vascular endothelial growth factor receptor 2 binding; fibronectin binding; platelet-derived growth factor receptor binding; protein disulfide isomerase activity; cell adhesion molecule binding; receptor activity Biological Process: negative regulation of lipid transport; axon guidance; entry of virus into host cell; extracellular matrix organization and biogenesis; protein folding; wound healing; cell-matrix adhesion; smooth muscle cell migration; mesodermal cell differentiation; negative chemotaxis; positive regulation of vascular endothelial growth factor receptor signaling pathway; platelet degranulation; cell-substrate junction assembly; cell growth; cell adhesion; integrin-mediated signaling pathway; platelet activation; regulation of bone resorption; cell migration; negative regulation of lipoprotein metabolic process; angiogenesis involved in wound healing; cell-substrate adhesion; heterotypic cell-cell adhesion; positive regulation of peptidyl-tyrosine phosphorylation; negative regulation of low-density lipoprotein receptor biosynthetic process; activation of protein kinase activity; positive regulation of endothelial cell proliferation; positive regulation of protein amino acid phosphorylation; tube development; blood coagulation; vascular endothelial growth factor receptor signaling pathway; leukocyte migration Disease: Myocardial Infarction, Susceptibility To; Glanzmann Thrombasthenia; Bleeding Disorder, Platelet-type, 16
Research Articles on CD61	**1.** RGD peptide plays an important role in the modulation of cell motility and in the perturbation of cell attachment affecting the malignant potential of breast cancer cells via binding to integrin alphavbeta3.
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