Integrin Beta 3 (ITGB3) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Integrin beta 3 (ITGB3), Polyclonal Antibody
Full Product Name	Integrin beta 3 Polyclonal Antibody Cy5.5 Conjugated
Product Gene Name	anti-ITGB3 antibody
Product Synonym Names	GT; CD61; GP3A; BDPLT2; GPIIIa; BDPLT16; Integrin beta-3; Platelet membrane glycoprotein IIIa; ITGB3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Purity/Purification	Purified by Protein A.
Concentration	1mgml (lot specific)
Preparation and Storage	Ship at 4 degree C. Store at -20 degree C for one year. Avoid repeated 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 aa 27-77 788 derived from human Integrin beta 3
Conjugation	Cy5.5
Excitation & Emission	675nm & 694nm
Cell Localization	Extracellular
Product Categories/Family for anti-ITGB3 antibody	Conjugated Primary Antibody
Applications Tested/Suitable for anti-ITGB3 antibody	Immunofluorescence (IF)
Application Notes for anti-ITGB3 antibody	FC/FACS: 1:50-200 IF: 1:50-200
Related Product Information for anti-ITGB3 antibody	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. Fibrinogen binding enhances SELP expression in activated platelets (By similarity). In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.

Other Notes	Small volumes of anti-ITGB3 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 ITGB3 purchase	MBS9464172 is an antibody targeting ITGB3. Also known as Integrin beta 3 Polyclonal Antibody Cy5.5 Conjugated. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ITGB3. 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 ITGB3	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 ITGB3	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 ITGB3	**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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