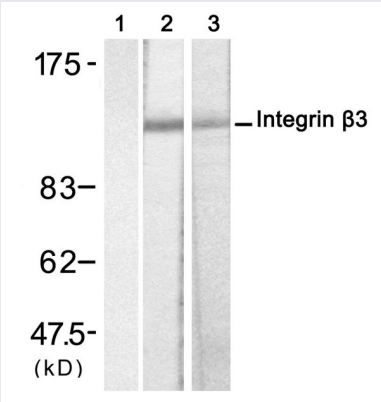
Integrin Beta3 (ITB3) Antibody

PRODUCT OVERVIEW

Product Name	Integrin beta3 (ITB3), Antibody
Full Product Name	Integrin beta3 (Ab-785) Antibody
Product Gene Name	anti-ITB3 antibody
Species Reactivity	Human, Mouse
Form/Format	In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	Integrin beta3 (Ab-785) antibody detects endogenous levels of total Integrin beta3 protein.
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	86,694 Da
OMIM	173470
3D Structure	ModBase 3D Structure for P05106
Immunogen	The antiserum was produced against synthesized non-phosphopeptide derived from human Integrin beta3 around the phosphorylation site of tyrosine 785 (I-T-YP-R-G).
Product Categories/Family for anti-ITB3 antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ITB3 antibody	Western Blot (WB)
Application Notes for anti-ITB3 antibody	WB: 1:500-1:1000
Related Product Information for anti-ITB3 antibody	MBS857104 is an antibody targeting ITB3. Also known as Integrin beta3 (Ab-785) Antibody. Reactive in Human, Mouse.
Product References and Citations for anti-ITB3 antibody	Sujoy Bhattacharya, et al. (2006) Biochem J. August 1; 397(Pt 3): 437-447 Courter DL, et al. (2005) J Biol Chem Apr 01; 280(13): 12145-12151 Chandhoke SK, et al. (2004) J Cell Sci Mar 15; 117(Pt 8): 1431-1441.
Other Notes	Small volumes of anti-ITB3 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-ITB3 antibody
HUVEC l HL-60 Western blot analysis of extract from HUVEC and HL-60 cells, using Integrin beta3 (Ab-785) antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ITB3. 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 subunit beta 3
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; GPIIIa; CD_antigen: CD61
UniProt Gene Name	ITGB3
UniProt Synonym Gene Names	GP3A; GPIIIa
NCBI Protein Information	integrin beta-3
NCBI Summary for ITB3	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 ITB3	Integrin alpha-V/beta-3 (ITGAV:ITGB3) is a receptor for cytotactin, fibronectin, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin, vitronectin and von Willebrand factor. Integrin alpha-IIb/beta-3 (ITGA2B:ITGB3) 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 (). ITGAV:ITGB3 binds to fractalkine (CX3CL1) and acts as its coreceptor in CX3CR1-dependent fractalkine signaling (PubMed:23125415, PubMed:24789099). ITGAV:ITGB3 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling (PubMed:20682778). ITGAV:ITGB3 binds to FGF1 and this binding is essential for FGF1 signaling (PubMed:18441324). ITGAV:ITGB3 binds to IGF1 and this binding is essential for IGF1 signaling (PubMed:19578119). ITGAV:ITGB3 binds to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding site (site 1) and this induces integrin conformational changes and enhanced ligand binding to site 1 (PubMed:18635536, PubMed:25398877). ITGAV:ITGB3 acts as a receptor for fibrillin-1 (FBN1) and mediates R-G-D-dependent cell adhesion to FBN1 (PubMed:12807887).
Research Articles on ITB3	**1.** The expression of H19 lncRNA and integrin beta3 protein were down-regulated in the RIF [repeated implantation failure] patients.
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