

Product datasheet for TP527348

Itgb3 (NM_016780) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse integrin beta 3 (Itgb3), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR227348 representing NM_016780 Red =Cloning site Green =Tags(s)
	<p>MRAQWPGQLWAALLALGALAGVWGESNICCTTRGVNSCQQCLAVSPVCAWCSDETLISQGSPPRCNLKENLL KDNCAPESIEFPVSEAIQILEARPLSSKSGSSAQITQVSPQRIALRLRPDDSKIFSLQVRQVEDYVPDIY YLMDLSFSMKDDLSSIQTGLTKLASQMRKLTSLNLRIGFGAFVDKPVSPYMYISPPQAIKNPCYNMKNA CLPMFGYKHVLTLDQVSRFNEEVKKQSVSRNRDAPEGGFDAIMQATVCDEKIGWRNDASHLLVFTTDAKTH IALDGRLAGIVLPNDGHCHIGTDNHYSASTTMDYPSLGLMTEKLSQKNINLIFAVTENVVSLYQNYSELI PGTTVGVLSDDSSNVLQLIVDAYGKIRSKVELEVRDLPEELSLSFNATCLNNEVIPGLKSCVGLKIGDTV SFSIEAKVRGCPQEKEQSFTIKPVGFKDSLTVQVTFDCDCACQAFAPSSPRCNGNGTFCGVCRCDDQG WLGSMECESEEDYRPSQQEECSPKEGQPICSRGCELCGQCVCVHSSDFGKITGKYCECDDFSCVRYK GEMCSGHGQCNCGDCVCDSDWTGYCNCCTTRTDTMSTNGLLCSGRGNCEGSCVCVQPGSYGDTCEKCP TPCDACSFKKECVECKKFNRTLHEENTCSRYCRDDIEQVKELDTGKNAVNTYKNEDDCVRFQYEDTSG RAVLYVVEEPECPKGPDILVLLSVMGAILLIGLATLLIWKLLITIHDRKEFAKFEERARAKWDTANNP LYKEATSTFTNITYRGT</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-MYC/DDK
Predicted MW:	87.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_058060
Locus ID:	16416
UniProt ID:	O54890
RefSeq Size:	5795
Cytogenetics:	11 67.84 cM
RefSeq ORF:	2361
Synonyms:	CD61; GP3A; INGRB3
Summary:	<p>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-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 surfaces. Fibrinogen binding enhances SELP expression in activated platelets (PubMed:19332769). ITGAV:ITGB3 binds to fractalkine (CX3CL1) and acts as its coreceptor in CX3CR1-dependent fractalkine signaling. ITGAV:ITGB3 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling. ITGAV:ITGB3 binds to FGF1 and this binding is essential for FGF1 signaling. ITGAV:ITGB3 binds to FGF2 and this binding is essential for FGF2 signaling (By similarity). ITGAV:ITGB3 binds to IGF1 and this binding is essential for IGF1 signaling (By similarity). ITGAV:ITGB3 binds to IGF2 and this binding is essential for IGF2 signaling (By similarity). ITGAV:ITGB3 binds to IL1B and this binding is essential for IL1B signaling (By similarity). 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 (By similarity). ITGAV:ITGB3 acts as a receptor for fibrillin-1 (FBN1) and mediates R-G-D-dependent cell adhesion to FBN1 (By similarity). In brain, plays a role in synaptic transmission and plasticity (PubMed:29038237, PubMed:18549786). Involved in the regulation of the serotonin neurotransmission, is required to localize to specific compartments within the synapse the serotonin receptor SLC6A4 and for an appropriate reuptake of serotonin (PubMed:29038237). Controls excitatory synaptic strength by regulating GRIA2-containing AMPAR endocytosis, which affects AMPAR abundance and composition (PubMed:18549786).</p> <p>[UniProtKB/Swiss-Prot Function]</p>