Rabbit Integrin beta 3 Polyclonal Antibody | anti-ITGB3 antibody

Integrin beta 3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA75895	**Rabbit**	**Human, Monkey**	**Western Blot, Immunoprecipitation, Immunohistochemistry, ELISA**

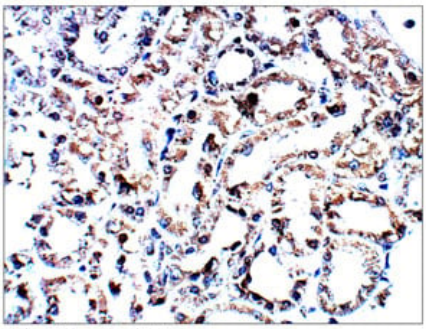
PRODUCT SYNONYMS

Integrin beta 3; Polyclonal Antibody; Integrin beta 3 Antibody; BDPLT16; BDPLT2; CD61; GP3A; GT; HPA 1; HPA 4; Integrin beta 3 (platelet glycoprotein IIIa antigen CD61); Integrin beta chain beta 3; ITGB 3; NAIT; Platelet fibrinogen receptor; beta subunit; Platelet glycoprotein IIIa; Platelet membrane glycoprotein IIIa; PTP antibody; anti-ITGB3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey
Clonality	Polyclonal
Form/Format	Affinity Purified Immunoglobulins
Concentration	0.68 mg/mL in antibody stabilization buffer (varies by lot)
Sequence Length	83
Applicable Applications for anti-ITGB3 antibody	WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA
Immunogen	Synthetic peptide taken within amino acid region 1-50 on human Integrin Beta 3 subunit protein.
Expression	Isoform beta-3A and isoform beta-3C are widely expressed. Isoform beta-3A is specifically expressed in osteoblast cells; isoform beta-3C is specifically expressed in prostate and testis.
Volume	200 uL
Molecular Function	Cell adhesion, Host-virus interaction
Structure	Heterodimer of an alpha and a beta subunit. Beta-3 (ITGB3) associates with either alpha-IIb (ITGA2B) or alpha-V (ITGAV). Isoform Beta-3C interacts with FLNB. Interacts with COMP. Interacts with PDIA6 following platelet stimulation. Interacts with SYK; upon activation by ITGB3 promotes platelet adhesion. Interacts with MYO10. Interacts with DAB3. Interacts with FERMT2. Interacts with EMP2; regulates the levels of the heterodimer ITGA5:ITGB3 integrin expression on the plasma membrane (PubMed:16216233). Integrin ITGAV:ITGB3 interacts with FBLN5 (via N-terminus). Integrin ITGAV:ITGB3 interacts with herpes virus 8/HHV-8 glycoprotein B and acts as a receptor for the virus. Interacts with HIV-1 Tat.
Subcellular Location	Cell junction, Cell membrane, Cell projection, Membrane
Preparation and Storage	Store at -20•°C for long term storage.

IMAGES



Baboon Kidney- Integrin beta 3
Primary Antibody: 1:100 dilution in IHC Blocking Buffer.
DAB (brown) staining and Hematoxylin QS (blue) counterstain.
40X magnification on Leica DM4000. FFPE section.

IHC (Immunohistochemistry)

ADDITIONAL INFORMATION

Related Product Information for anti-ITGB3 antibody	Affinity Purified Integrin beta chain Beta 3 antibody 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 (By similarity). In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.
Product Categories/Family for anti-ITGB3 antibody	Primary Antibodies; Signal Transduction; Cytoskeleton/ECM; Integrins; Integrin beta 3 Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	5705909
NCBI GeneID	3690
UniProt Accession #	P05106; O15495; Q12806; Q13413; Q14648; Q16499; A0PJW2; D3DXJ8
NCBI Official Full Name	integrin beta 3 subunit, partial
NCBI Official Synonym Full Names	integrin subunit beta 3
NCBI Official Symbol	ITGB3
NCBI Official Synonym Symbols	GT; CD61; GP3A; BDPLT2; GPIIIa; BDPLT16
NCBI Protein Information	integrin beta-3
UniProt Protein Name	Integrin beta-3
UniProt Gene Name	**ITGB3**
UniProt Synonym Gene Names	GP3A; GPIIIa
UniProt Entry Name	ITB3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.