

Rabbit Integrin beta3 Polyclonal Antibody | anti-ITGB3 antibody

Phospho-Integrin beta3 (Tyr785) Antibody

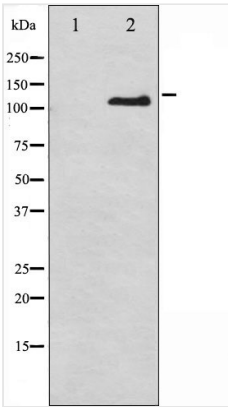
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321475	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

Integrin beta3; Polyclonal Antibody; Phospho-Integrin beta3 (Tyr785) Antibody; BDPLT16; BDPLT2; CD 61; CD61; CD61 antigen; GP3A; GPIIIa; GT; HPA 1; HPA 4; Integrin beta 3 (platelet glycoprotein IIIa antigen CD61); Integrin beta chain beta 3; Integrin beta-3; ITB3_HUMAN; ITG B3; ITGB 3; ITGB3; NAIT; Platelet fibrinogen receptor beta subunit; Platelet fibrinogen receptor; beta subunit; Platelet glycoprotein IIIa; Platelet glycoprotein IIIa precursor; Platelet membrane glycoprotein IIIa; PTP; anti-ITGB3 antibody

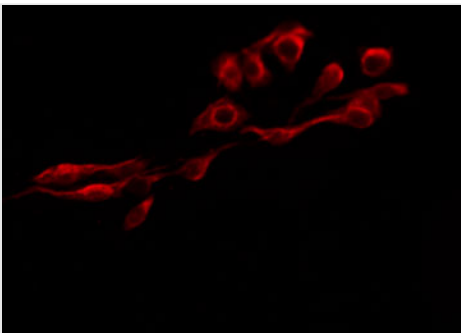
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-Integrin beta3 (Tyr785) antibody detects endogenous levels of Integrin beta3 only when phosphorylated at Tyrosine 785
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	788
Applicable Applications for anti-ITGB3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Integrin beta3 around the phosphorylation site of Tyrosine 785
Subcellular Location	Membrane.
Tissue Specificity	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.
Predicted Cross Reactivity	Bovine, Horse, Rabbit, Dog, Chicken, Xenopus
Similarity	Bovine (100%), Horse (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Epitope	Phospho Tyr785
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)

Western blot analysis of Integrin beta3 phosphorylation expression in Insulin treated 293 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA321475 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ITGB3 antibody

Description: 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. Function: 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). 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 FGF2 and this binding is essential for FGF2 signaling (PubMed:28302677). ITGAV:ITGB3 binds to IGF1 and this binding is essential for IGF1 signaling (PubMed:19578119). ITGAV:ITGB3 binds to IGF2 and this binding is essential for IGF2 signaling (PubMed:28873464). ITGAV:ITGB3 binds to IL1B and this binding is essential for IL1B signaling (PubMed:29030430). 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). Subunit 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 DAB2. 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) (By similarity). ITGAV:ITGB3 interacts with NOV (PubMed:12695522). ITGAV:ITGB3 is found in a ternary complex with CX3CR1 and CX3CL1 (PubMed:23125415). ITGAV:ITGB3 is found in a ternary complex with NRG1 and ERBB3 (PubMed:20682778). ITGAV:ITGB3 is found in a ternary complex with FGF1 and FGFR1 (PubMed:18441324). ITGAV:ITGB3 interacts with FGF2; it is likely that FGF2 can simultaneously bind ITGAV:ITGB3 and FGF receptors (PubMed:28302677). ITGAV:ITGB3 binds to IL1B (PubMed:29030430). ITGAV:ITGB3 is found in a ternary complex with IGF1 and IGF1R (PubMed:19578119). ITGAV:ITGB3 interacts with IGF2 (PubMed:28873464). ITGAV:ITGB3 interacts with FBN1 (PubMed:12807887). ITGAV:ITGB3 interacts with CD9, CD81 and CD151 (via second extracellular domain) (PubMed:27993971). Interacts (via the allosteric site (site 2)) with CXCL12 in a CXCR4-independent manner (PubMed:29301984). Post-translational Modifications: Phosphorylated on tyrosine residues in response to thrombin-induced platelet aggregation. Probably involved in outside-in signaling. A peptide (AA 740-762) is capable of binding GRB2 only when both Tyr-773 and Tyr-785 are phosphorylated. Phosphorylation of Thr-779 inhibits SHC binding. Similarity: Belongs to the integrin beta chain family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	47078292
NCBI GeneID	3690
NCBI Accession #	NP_000203.2
NCBI GenBank Nucleotide #	NM_000212.2
UniProt Accession #	P05106; O15495; Q12806; Q13413; Q14648; Q16499; A0PJW2; D3DXJ8
Molecular Weight	Observed: 110 kDa Predicted: 88 kDa
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
NCBI Protein Information	integrin beta-3
UniProt Protein Name	Integrin beta-3
UniProt Gene Name	ITGB3
UniProt Synonym Gene Names	GP3A; GPIIIa

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/integrin-beta3-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321475>