

#11282

Integrin $\beta 3$ (Phospho-Tyr785) Antibody

Catalog: #11282-1 50 μ l **Orders:** order@signalwayantibody.com
#11282-2 100 μ l **Support:** tech@signalwayantibody.com
Storage: Store at -20°C/1 year **Web:** www.signalwayantibody.com



Application	Species Reactivity	Source	Molecular Wt.
WB	Human Mouse	Rabbit Polyclonal Ab	110KD

Description: Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.

Specificity: The antibody detects endogenous level of Integrin $\beta 3$ only when phosphorylated at tyrosine 785.

Immunogen: Peptide sequence around phosphorylation site of tyrosine 785 (I-T-Y(p)-R-G) derived from Human Integrin $\beta 3$.

Formulation: Supplied at 1.0mg/mL in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Synonyms: CD61 antigen GP3A GPIIIa ITB3 Platelet membrane glycoprotein IIIa

Accession No.: Swiss-Prot#: P05106 NCBI Gene#: 3690
NCBI Protein#: NP_000203.2

Background: Integrin α -V/ β -3 is a receptor for cytotactin, fibronectin, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin, vitronectin and von Willebrand factor. Integrin α -IIb/ β -3 is a receptor for fibronectin, fibrinogen, plasminogen, prothrombin, thrombospondin and vitronectin. Integrins α -IIb/ β -3 and α -V/ β -3 recognize the sequence R-G-D in a wide array of ligands. Integrin α -IIb/ β -3 recognizes the sequence H-H-L-G-G-G-A-K-Q-A-G-D-V in fibrinogen gamma chain. Following activation integrin α -IIb/ β -3 brings about platelet/platelet interaction through binding of soluble fibrinogen. This step leads to rapid platelet aggregation which physically plugs ruptured endothelial surface. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.

References:

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

Citation:

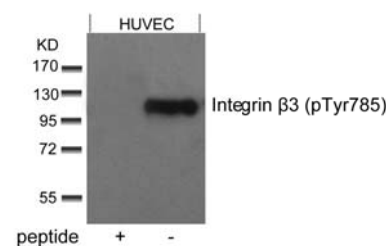
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Related Pathway: Cytoskeletal/Adhesion

Note: For western blotting, incubate membrane with diluted antibody in 5% nonfat milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Recommended Dilutions:

Western blotting 1:500~1:1000



Western blot analysis of extracts from HUVEC cells using Integrin $\beta 3$ (Phospho-Tyr785) Antibody #11282 and the same antibody preincubated with blocking peptide.