

Rabbit anti-Human Integrin beta1 Polyclonal Antibody | anti-ITGB1 antibody

Integrin beta1 (Phospho-Thr789) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA303657	Rabbit	Human	Immunohistochemistry, Western Blot

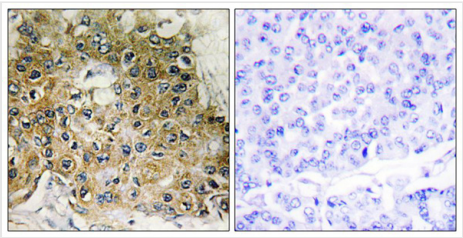
PRODUCT SYNONYMS

Integrin beta1; Polyclonal Antibody; Integrin beta1 (Phospho-Thr789) Antibody; Integrin b1 (Phospho-Thr789) Antibody; CD29; FNRB; ITB1; anti-ITGB1 antibody

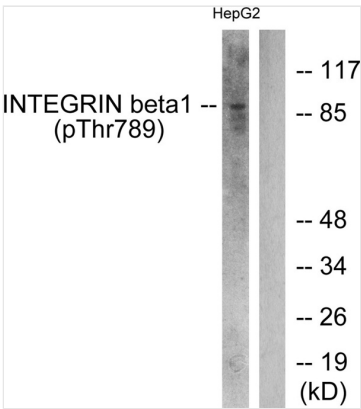
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Specificity	The antibody detects endogenous levels of Integrin b1 only when phosphorylated at threonine 789.
Purity/Purification	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
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	798
Applicable Applications for anti-ITGB1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine 789(V-E-T(p)-V-V) derived from Human Integrin b1.
Modification	Phospho-Thr789
Target Name	Integrin b1
Preparation and Storage	Store at -20 degree C/1 year

IMAGES



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Integrin b1 (Phospho-Thr789) antibody (left) or the same antibody preincubated with blocking peptide (right).



WB (Western Blot)
Western blot analysis of extracts from HepG2 cells treated with Ca2+ using Integrin b1 (Phospho-Thr789) Antibody. The lane on the right is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ITGB1 antibody	Integrins alpha-1/beta-1, alpha-2/beta-1, alpha-10/beta-1 and alpha-11/beta-1 are receptors for collagen. Integrins alpha-1/beta-1 and alpha-2/beta-2 recognize the proline-hydroxylated sequence G-F-P-G-E-R in collagen. Integrins alpha-2/beta-1, alpha-3/beta-1, alpha-4/beta-1, alpha-5/beta-1, alpha-8/beta-1, alpha-10/beta-1, alpha-11/beta-1 and alpha-V/beta-1 are receptors for fibronectin. Alpha-4/beta-1 recognizes one or more domains within the alternatively spliced CS-1 and CS-5 regions of fibronectin. Integrin alpha-5/beta-1 is a receptor for fibrinogen. Integrin alpha-1/beta-1, alpha-2/beta-1, alpha-6/beta-1 and alpha-7/beta-1 are receptors for laminin. Integrin alpha-4/beta-1 is a receptor for VCAM1. It recognizes the sequence Q-I-D-S in VCAM1. Integrin alpha-9/beta-1 is a receptor for VCAM1, cytactin and osteopontin. It recognizes the sequence A-E-I-D-G-I-E-L in cytactin. Integrin alpha-3/beta-1 is a receptor for epiligrin, thrombospondin and CSPG4. Alpha-3/beta-1 may mediate with LGALS3 the stimulation by CSPG4 of endothelial cells migration. Integrin alpha-V/beta-1 is a receptor for vitronectin. Beta-1 integrins recognize the sequence R-G-D in a wide array of ligands. Isoform beta-1B interferes with isoform beta-1A resulting in a dominant negative effect on cell adhesion and migration (in vitro). In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions. When associated with alpha-7/beta-1 integrin, regulates cell adhesion and laminin matrix deposition. Involved in promoting endothelial cell motility and angiogenesis. May be involved in up-regulation of the activity of kinases such as PKC via binding to KRT1. Together with KRT1 and GNB2L1/RACK1, serves as a platform for SRC activation or inactivation. Plays a mechanistic adhesive role during telophase, required for the successful completion of cytokinesisArgaves W.S., J. Cell Biol. 105:1183-1190(1987).Balzac F., J. Cell Biol. 121:171-178(1993).Balzac F., J. Cell Biol. 127:557-565(1994).
Product Categories/Family for anti-ITGB1 antibody	Phospho-specific Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	19743813
NCBI GeneID	3688
NCBI Accession #	NP_002202.2
NCBI GenBank Nucleotide #	NM_002211.3
UniProt Accession #	P05556; P78466; P78467; Q13089; Q13090; Q13091; Q13212; A8K6N2; D3DRX9; D3DRY3; D3DRY4; D3DRY5
Molecular Weight	88,884 Da
NCBI Official Full Name	integrin beta-1 isoform 1A
NCBI Official Synonym Full Names	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)
NCBI Official Symbol	ITGB1

NCBI Official Synonym Symbols	CD29; FNRB; MDF2; VLAB; GPIIA; MSK12; VLA-BETA
NCBI Protein Information	integrin beta-1
UniProt Protein Name	Integrin beta-1
UniProt Gene Name	ITGB1
UniProt Synonym Gene Names	FNRB; MDF2; MSK12; GPIIA
UniProt Entry Name	ITB1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/integrin-beta1-antibody-immunohistochemistry-western-blot-elisa/303657>