



ITGB1 (Ab-789) Antibody

Product Code	CSB-PA136121
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P05556
Immunogen	Synthesized non-phosphopeptide derived from Human Integrin β 1 around the phosphorylation site of threonine 789 (V-T-T(p)-V-V).
Raised In	Rabbit
Species Reactivity	Human, Mouse, Rat
Specificity	The antibody detects endogenous levels of total Integrin β 1 protein.
Tested Applications	ELISA, WB; WB: 1:500-1:3000
Relevance	Integrins α-1/β-1, α-2/β-1, α-10/β-1 and α-11/β-1 are receptors for collagen. Integrins α-1/β-1 and α-2/β-2 recognize the proline-hydroxylated sequence G-F-P-G-E-R in collagen. Integrins α-2/β-1, α-3/β-1, α-4/β-1, α-5/β-1, α-8/β-1, α-10/β-1, α-11/β-1 and α-V/β-1 are receptors for fibronectin. α-4/β-1 recognizes one or more domains within the alternatively spliced CS-1 and CS-5 regions of fibronectin. Integrin α-5/β-1 is a receptor for fibrinogen. Integrin α-1/β-1, α-2/β-1, α-6/β-1 and α-7/β-1 are receptors for laminin. Integrin α-4/β-1 is a receptor for VCAM1. It recognizes the sequence Q-I-D-S in VCAM1. Integrin α-9/β-1 is a receptor for VCAM1, cytotactin and osteopontin. It recognizes the sequence A-E-I-D-G-I-E-L in cytotactin. Integrin α-3/β-1 is a receptor for epiligrin, thrombospondin and CSPG4. α-3/β-1 may mediate with LGALS3 the stimulation by CSPG4 of endothelial cells migration. Integrin α-V/β-1 is a receptor for vitronectin. β-1 integrins recognize the sequence R-G-D in a wide array of ligands. Isoform 2 interferes with isoform 1 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 α-7/β-1 integrin, regulates cell adhesion and laminin matrix deposition. Involved in promoting endothelial cell motility and angiogenesis. Involved in osteoblast compaction through the fibronectin fibrillogenesis cell-mediated matrix assembly process and the formation of mineralized bone nodules. 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 cytokinesis. Isoform 5: Isoform 5 displaces isoform 1 in striated muscles. By similarity. G Santoni, Microbiology, Nov 1994; 140: 2971. Maria J. Calzada, J. Biol. Chem., Oct 2004; 279: 41734 - 41743. Lawrence E. Feldman, Cancer Res., Feb 1991; 51: 1065 - 1070. MF Gurish, J. Immunol., Sep 1992; 149: 1964.
Form	Rabbit IgG in phosphate buffered saline (without Mg^{2+} and Ca^{2+}), pH 7.4,



150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purification Method

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Clonality

Polyclonal

Alias

CD29; FNRB; Fibronectin receptor beta subunit; ITB1; Integrin VLA-4 beta subunit

Product Type

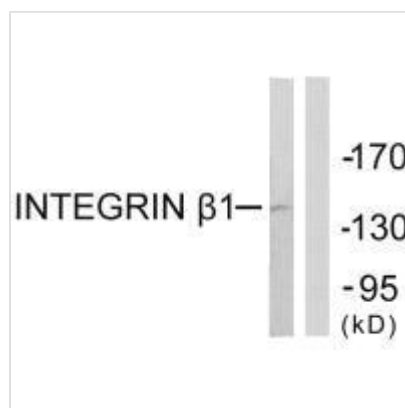
Polyclonal Antibody

Species

Homo sapiens (Human)

Target Names

ITGB1

Image


Western blot analysis of extracts from Jurkat cells, using Integrin β 1 (Ab-789) antibody.