Integrin beta-1 (Itgb1) Recombinant Protein | Itgb1 recombinant protein

Recombinant Mouse Integrin beta-1 (Itgb1), partial

CATALOG #	HOST
AAA113229	**E Coli or Yeast or Baculovirus or Mammalian Cell**

PRODUCT SYNONYMS

Integrin beta-1 (Itgb1); Recombinant Mouse Integrin beta-1 (Itgb1); partial; Fibronectin receptor subunit beta; VLA-4 subunit beta; CD_antigen: CD29; Itgb1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	21-728. Extracellular domain
Sequence	QTDKNRCLKA NAKSCGECIQ AGPNCGWCTN TTFLQEGMPT SARCDDLEAL KKKGCQPSDI ENPRGSQTIK KNKNVTNRSK GMAEKLRPED ITQIQPQQLL LKLRSGEPQK FTLKFKRAED YPIDLYYLMD LSYSMKDDLE NVKSLGTDLM NEMRRITSDF RIGFGSFVEK TVMPYISTTP AKLRNPCTSE QNCTSPFSYK NVLSLTDRGE FFNELVGQQR ISGNLDSPEG GFDAIMQVAV CGSLIGWRNV TRLLVFSTDA GFHFAGDGKL GGIVLPNDGQ CHLENNVYTM SHYYDYPSIA HLVQKLSENN IQTIFAVTEE FQPVYKELKN LIPKSAVGTL SGNSSNVIQL IIDAYNSLSS EVILENSKLP DGVTINYKSY CKNGVNGTGE NGRKCSNISI GDEVQFEISI TANKCPNKES ETIKIKPLGF TEEVEVVLQF ICKCNCQSHG IPASPKCHEG NGTFECGACR CNEGRVGRHC ECSTDEVNSE DMDAYCRKEN SSEICSNNGE CVCGQCVCRK RDNTNEIYSG KFCECDNFNC DRSNGLICGG NGVCRCRVCE CYPNYTGSAC DCSLDTGPCL ASNGQICNGR GICECGACKC TDPKFQGPTC ETCQTCLGVC AEHKECVQCR AFNKGEKKDT CAQECSHFNL TKVESREKLP QPVQVDPVTH CKEKDIDDCW FYFTYSVNGN NEAIVHVVET PDCPTGPD
Species	Mus musculus (Mouse)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES

SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Itgb1 recombinant protein	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 lamimin. Integrin alpha-4/beta-1 is a receptor for VCAM1 and recognizes the sequence Q-I-D-S in VCAM1. Integrin alpha-9/beta-1 is a receptor for VCAM1, cytotactin and osteopontin. It recognizes the sequence A-E-I-D-G-I-E-L in cytotactin. Integrin alpha-3/beta-1 is a receptor for epiligrin, thrombospondin and CSPG4. Integrin alpha-3/beta-1 provides a docking site for FAP (seprase) at invadopodia plasma membranes in a collagen-dependent manner and hence may participate in the adhesion, formation of invadopodia and matrix degradation processes, promoting cell invasion. 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. When associated with alpha-7/beta-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, serves as a platform for SRC activation or inactivation. Plays a mechanistic adhesive role during telophase, required for the successful completion of cytokinesis.
Product Categories/Family for Itgb1 recombinant protein	Signal Transduction
References	"Murine mRNA for the beta-subunit of integrin is increased in BALB/c-3T3 cells entering the G1 phase from the G0 state." Tominaga S. FEBS Lett. 238:315-319(1988)

NCBI AND UNIPROT INFORMATION

NCBI GI #	45504394
NCBI GeneID	16412
NCBI Accession #	NP_034708.1
NCBI GenBank Nucleotide #	NM_010578.2
UniProt Accession #	P09055; Q3TIW5; Q3TWH6; Q60993; Q61126; Q8BTU0; Q8BVU1; F6R105
Molecular Weight	82.2 kDa
NCBI Official Full Name	integrin beta-1
NCBI Official Synonym Full Names	integrin beta 1 (fibronectin receptor beta)
NCBI Official Symbol	Itgb1
NCBI Official Synonym Symbols	CD29; Fnrb; gpIIa; Gm9863; AA409975; AA960159; 4633401G24Rik; ENSMUSG00000051907
NCBI Protein Information	integrin beta-1
UniProt Protein Name	Integrin beta-1
UniProt Gene Name	**Itgb1**
UniProt Entry Name	ITB1_MOUSE

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.

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Online datasheet: https://stage.aaabiotech.com/itgb1-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/113229