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

Recombinant Rat Integrin beta-1 (Itgb1), partial

CATALOG #	HOST
AAA113458	**E Coli or Yeast or Baculovirus or Mammalian Cell**

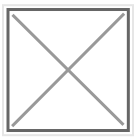
PRODUCT SYNONYMS

Integrin beta-1 (Itgb1); Recombinant Rat Integrin beta-1 (Itgb1); partial; Beta oligodendroglia; Beta OL; Fibronectin receptor subunit beta; VLA-4 subunit beta; 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	21-729. Partial
Sequence	QTDKNRCLKA NAKSCGECIQ AGPNCGWCTN TTFLQEGMPT SARCDDLEAL KKKGCHPSDI 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 ENQLKLNPLG FTEEVEVVLQ FICKCNCQSH GIPASPKCHE GNGTFECGAC RCNEGRVGRH CECSTDEVNS EDMDAYCRKE NSSEICSNNG ECVCGQCVCR KRENTNEIYS GKFCECDNFN CDRSNGLICG GNGVCRCRVC ECYPNYTGSA CDCSLDTVPC VATNGQICNG RGICECGACK CTDPKFQGPT CETCQTCLGV CAEHKECVQC RAFNKGEKKD TCAQECSHFN LTKVESREKL PQPVQVDPVT HCKEKDIDDC WFYFTYSVNS KGEAHVHVVE TPDCPTGPD
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.
References	Cloning and sequence of the cDNA encoding the rat oligodendrocyte integrin beta 1 subunit.Malek-Hedayat S., Rome L.H.Gene 158:287-290(1995)

NCBI AND UNIPROT INFORMATION

NCBI GI #	158303324
NCBI GeneID	24511
NCBI Accession #	NP_058718.2
NCBI GenBank Nucleotide #	NM_017022.2
UniProt Accession #	P49134; A2RRT8
Molecular Weight	94.4 kDa
NCBI Official Full Name	integrin beta-1
NCBI Official Synonym Full Names	integrin subunit beta 1
NCBI Official Symbol	Itgb1
NCBI Protein Information	integrin beta-1
UniProt Protein Name	Integrin beta-1
UniProt Gene Name	**Itgb1**
UniProt Synonym Gene Names	Beta OL
UniProt Entry Name	ITB1_RAT

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/itgb1-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/113458