



Datasheet for ABIN5709775

WAVE4 Protein (AA 21-729, Extracellular) (His-SUMO Tag)



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1 Image

Overview

Quantity:	100 µg
Target:	WAVE4 (SCAR2)
Protein Characteristics:	Extracellular, AA 21-729
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This WAVE4 protein is labelled with His-SUMO Tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence: QTDKNRCLKA NAKSCGECIQ AGPNCGWCTN TTFLQEGMPT SARCDLEAL KKKGCHPSDI
 ENPRGSQTIK KNKNVTNRSK GMAEKLRPED ITQIQPQQLL LKLRSQEPQK FTLKFKRAED
 YPIDLYYLM DLSYSMKDDLE NVKSLGTDLM NEMRRITSDF RIGFGSFVEK TVMPYISTTP
 AKLRNPCTSE QNCTSPFSYK NVLSLTDRGE FFNELVGQQR ISGNLDSPEG GFDAIMQVAV
 CGSLIGWRNV TRLLVFSTDA GFHFAGDGKL GGIVLPNDGQ CHLENNVYTM SHYYDYPSIA
 HLVQKLENN IQTIFAVTEE FQPVYKELKN LIPKSAVGTL SGNSSNVIQL IIDAYNSLSS
 EVILENSKLP DGVTINYKSY CKNGVNGTGE NGRKCSNISI GDEVQFEISI TANKCPNKES
 ENQLKLNPLG FTEEVEVLQ FICKCNCQSH GIPASPKCHE GNGTFECGAC RCNEGRVGRH
 CECSTDEVNS EDMDAYCRKE NSSEICSNNG ECVCGQCVCR KRENTNEIYS GKFCECDNFN
 CDRSNGLICG GNGVCRRCRVC ECYPNYTGSA CDCSLDTVPC VATNGQICNG RGICECGACK
 CTDPKFQGPT CETCQTCLGV CAEHKECVQC RAFNKGEKKD TCAQECSHFN LTKVESREKL
 PQPVQVDPVT HCKEKDIDDC WFYFTYSVNS KGEAHVHVVE TPCPTGPD

Product Details

Purification: SDS-PAGE

Purity: > 90 %

Target Details

Target: WAVE4 (SCAR2)

Alternative Name: ITB1 ([SCAR2 Products](#))

Background: 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 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.

Molecular Weight: 94.4 kDa

UniProt: [P49134](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

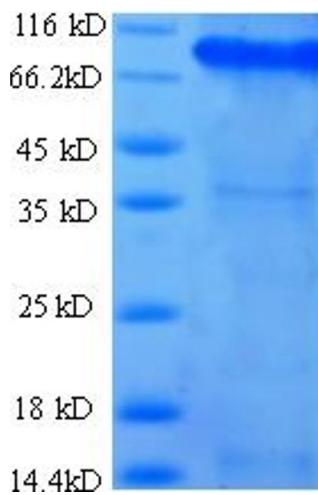
Concentration: 0.1-2 mg/mL

Buffer: 20 mM Tris-HCl based buffer, pH 8.0

Storage: -80 °C, 4 °C, -20 °C

Storage Comment: Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Images



SDS-PAGE

Image 1.