Datasheet for ABIN7564216

PLEKHM1 Protein (AA 1-1074) (His tag)

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Overview

Quantity:	1 mg
Target:	PLEKHM1
Protein Characteristics:	AA 1-1074
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLEKHM1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Plekhm1 Protein expressed in mammalian cells.
Sequence:	MLSVENGLDP RAAIQVIKKK LVGSVKALQK QHVSLDTVVT SEDGDANTMC SALEAVFIHG LHAKHIRAEA GGKRKKHTHQ KALPQPVFWP LLKAITHRHI VSDLEHLVFI NTDVGRCRAW LRLALNDGLM ECYLKLLLQE PARLCEYYQP TALLRDAEEA EFLLSFLQGL TSLSFELSYK SAILNEWTLT PLSLSGLCPL SELDPLTTSG AELQRKESLD SISHSSGSED IEVQHSGHKI RRNRKLTASS LSLDTASSSQ LSCSLNSDSC LLQENGPKSP DHSEEPMSYD SDLGMANTDD PDRSLQEVLS EFSKAQVNSA PSSGPNQEPD TPMFQTPLSL HSLATSTHLH FEGSEELFPA HKSSGTSSGG HKHQLLPQET PDEKQLGTAQ AGPAQSTSDQ QPSSPVGGAA GQGSGPWKAL EYGRVGPKLV VSSPTSPKGK SWISEDDFCR PPQEPALKSA AGLCTSPVQD TPESRAALHG PFSQGPRKSC SLGALDKACV PSQACGNAQP APAPAPAPAP APAPAPGVTQ DHKNFCVVHR RQMGLSNPFR GLMKLGTVAR RGAMGIWKEF FCELSPLEFR LYLSDEERTC VESCSLLRCE AVGPAHSDGR FELVFSGKKL ALRASSQDEA EDWLDRVREA LQKVRPQQED EWVNIQYPDQ AEDAPEAPPD SLPPYSTLLP EPAGAQGMQL DWTSAQVPEP DAIKESLLYL YADRTWVPYI

Product Details

	FSLSLESLKC FRVRNNEKML SDSHGVETIR DILPDTSLGG PAFFKIITAK AVLKLQAKNT EEATHWRDLV RKVLASYLES AEEAVTLGGS LDEKCQEVLK FATRENGFLL QYLVAIPTEK GLDSQGCFCA GCSRQIGFSF VRPKLCAFSG LYYCDFCHQD DASVIPARII HNWDLTKRPV CRQALKFLAQ IRAQPLINLQ LVNASLYEHV ERMHLIGRSR EQLKLLGDYL GLCRSGALKE LCKRLSHRNY LLESPHRFSV ADLQQIAEGV YEGFLKALIE FASQHVYHCD LCTQRGFICQ ICHHQDIIFP FEFDTTVRCA ECRTVFHQSC QAVVRKGCPR CARRRKYQEQ NVVS **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	PLEKHM1
Alternative Name:	Plekhm1 (PLEKHM1 Products)
Background:	Pleckstrin homology domain-containing family M member 1 (PH domain-containing family M member 1),FUNCTION: Acts as a multivalent adapter protein that regulates Rab7-dependent

Target Details

	and HOPS complex-dependent fusion events in the endolysosomal system and couples autophagic and the endocytic trafficking pathways. Acts as a dual effector of RAB7A and ARL8B that simultaneously binds these GTPases, bringing about clustering and fusion of late endosomes and lysosomes. Required for late stages of endolysosomal maturation, facilitating both endocytosis-mediated degradation of growth factor receptors and autophagosome clearance. Interaction with Arl8b is a crucial factor in the terminal maturation of autophagosomes and to mediate autophagosome-lysosome fusion (PubMed:25498145). Positively regulates lysosome peripheral distribution and ruffled border formation in osteoclasts (PubMed:27777970). May be involved in negative regulation of endocytic transport from early endosome to late endosome/lysosome implicating its association with Rab7. May have a role in sialyl-lex-mediated transduction of apoptotic signals (By similarity). Involved in bone resorption (PubMed:27777970). {ECO:0000250|UniProtKB:Q9Y4G2, ECO:0000269|PubMed:25498145, ECO:0000269|PubMed:27777970}.
Molecular Weight:	118.5 kDa
UniProt:	Q7TSI1

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

