

Datasheet for ABIN7554955
PLEKHM1 Protein (AA 1-1056) (His tag)



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Overview

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| Quantity: | 1 mg |
| Target: | PLEKHM1 |
| Protein Characteristics: | AA 1-1056 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This PLEKHM1 protein is labelled with His tag. |

Product Details

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| Purpose: | Custom-made recombinant PLEKHM1 Protein expressed in mammalian cells. |
| Sequence: | <p>MLSVVENGLD PQAAIPVIKK KLVGSVKALQ KQYVSLDTVV TSEDGDANTM CSALEAVFIH GLHAKHIRAE AGGKRKSAH QKPLPQPVFW PLLKAVTHKH IISELEHLTF VNTDVGR CRA WLRLALNDGL MECYLKLLLQ EQARLHEYQ PTALLRDAEE GEFLLSFLQG LTSLSFELSY KSAILNEWTL TPLALSGLCP LSELDPLSTS GAELQRKESL DSISHSSGSE DIEVHHSCHK IRRNQKLTA SLSLDTASS QLSCSLNSDS CLLQENGSKS PDHCEPMSC DSDLGTANAE DSDRSLQEV LFSKAQVNS VPTNGLSQET EIPTQASLS LHGLNTSTYL HCEAPAEPLP AQAASGTQDG VHVQEPRPQA PSPLDLQPV ESTSGQPSS TVSETAREVG QGNGLQKAQA HDGAGLKL VV SSPTSPKNKS WISEDDFYRP SREQPLESAS DHPIASYRGT PGSRPG LHRH FSQEPRKNCS LGALDQACVP SPGRRQAQAA PSQGHKSFRV VHRRQMGLSN PFRGLMKLGT VERRGAMGIW KELFCELSPL EFRLYLSNEE HTCVENCSLL RCESVGAH S DGRFELVFSG KKLALRASSQ DEAEDWLD RV REALQKVRPQ QEDEWVNVQY PDQPEEPP EA PQGCLSPSDL LSEPAALQGT QFDWSSAQVP EPDAIKESLL YLYMDRTWMP YIFLSLEAL KCFRIRNNEK</p> |

Product Details

MLSDSHGVET IRDILPDTSL GGPSFFKIIT AKAVLKLQAG NAEAAALWRD LVRKVLASYL
ETAEEAVTLG GSLDENCQEV LKFATRENGF LLQYLVAIPM EKGLDSQGC F CAGCSRQIGF
SFVRPKLCAF SGLYCDICH QDDASVIPAR IHNWDLTKR PICRQALKFL TQIRAQPLIN
LQMVNASLYE HVERMHLIGR RREQLKLLGD YLGLCRSGAL KELSRLNHR NYLLESPHRF
SVADLQIQAD GVEGFLKAL IEFASQHVYH CDLCTQRGFI CQICQHHDII PPFEDTTVR
CAECKTVFHQ SCQAVVKKGC PRCARRRKYQ EQNIFA **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) (162 kDa adapter protein) (AP162),FUNCTION: Acts as a multivalent adapter protein

Target Details

that regulates Rab7-dependent 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 (PubMed:25498145, PubMed:28325809). 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 (By similarity). May be involved in negative regulation of endocytic transport from early endosome to late endosome/lysosome implicating its association with Rab7 (PubMed:20943950). May have a role in sialyl-Ix-mediated transduction of apoptotic signals (PubMed:12820725). Involved in bone resorption (By similarity). {ECO:0000250|UniProtKB:Q5PQS0, ECO:0000250|UniProtKB:Q7TSI1, ECO:0000269|PubMed:12820725, ECO:0000269|PubMed:20943950, ECO:0000269|PubMed:25498145, ECO:0000269|PubMed:28325809}., FUNCTION: (Microbial infection) In case of infection contributes to Salmonella typhimurium pathogenesis by supporting the integrity of the Salmonella-containing vacuole (SCV) probably in concert with the HOPS complex and Rab7. {ECO:0000269|PubMed:25500191}.

Molecular Weight: 117.4 kDa

UniProt: [Q9Y4G2](#)

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

Handling

Storage Comment: Store at -80°C.

Expiry Date: 12 months