

Datasheet for ABIN7554956  
**PLEKHM2 Protein (AA 1-1019) (His tag)**



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## Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 1 mg   |
| Target:                       | PLEKHM2  |
| Protein Characteristics:      | AA 1-1019                                      |
| Origin:                       | Human  |
| Source:                       | HEK-293 Cells                                  |
| Protein Type:                 | Recombinant                                    |
| Purification tag / Conjugate: | This PLEKHM2 protein is labelled with His tag. |

## Product Details

Purpose: Custom-made recombinant PLEKHM2 Protein expressed in mammalian cells.

Sequence: MEPGEVKDRI LENISLSVKK LQSYFAACED EIPAIRNHDK VLQRLCEHLD HALLYGLQDL  
SSGYWVLVWH FTRREAIKQI EVLQHVATNL GRSRAWLYLA LNENSLESYL RLFQENLGLL  
HKYYYVKNALV CSHDHLTLFL TLVSGLEFIR FELDLDPAYL DLAPYMPDYY KPQYLLDFED  
RLPSSVHGSD SLSLNSFNFSV TSTNLEWDDS AIAPSSSEDYD FGDVFPVAVPS VPSTDWEDGD  
LTDTVSGPRS TASDLTSSKA STRSPTQRQN PFNEEPAETV SSSDTPVHT TSQEKEEAQA  
LDPDACTEL EVIRVTKKKK IGKKKKSRSD EEASPLHPAC SQKCKAQGD GDSRNGSPSL  
GRDSPDTMLA SPQEEGEGPS STTESSERSE PGLLIPEMKD TSMERLGQPL SKVIDQLNGQ  
LDPSTWCSRA EPPDQSFRTG SPGDAPERPP LCDFSEGLSA PMDFYRFTVE SPSTVTSGGG  
HHDPAGLGQP LHVPSPEAA GQEEEGGGGE GQTPRPLEDT TREAQLEAQ LSLVREGPVS  
EPEPGTQEV L CQLKRDQSP CLSSAEDSGV DEGQGSPSEM VHSSEFRVDN NHLLLLMIHV  
FRENEEQLFK MIRMSTGHME GNLQLLYVLL TDCYVYLLRK GATEKPYLVE EAVSYNELDY  
VSVGLDQQT V KLVCTNRRKQ FLLDTADVAL AEFFLASLKS AMIKGCREPP YPSILTDATM

## Product Details

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EKLALAKFVA QESKCEASAV TVRFYGLVHW EDPTDESLGP TPCHCSPPEG TITKEGMLHY  
KAGTSYLGKE HWKTCFVLS NGILYQYPDR TDVIPLLSVN MGGEQCGGCR RANTTDRPHA  
FQVILSDRPC LELSAESEAE MAEWMQHLCQ AVSKGVIPQG VAPSPCIPCC LVLTDRLFT  
CHEDCQTSFF RSLGTAKLGD ISAVSTEPGK EYCVLEFSQD SQQLLPWVI YLSCTSELDR  
LLSALNSGWK TIYQVDLPHT AIQEASNKKK FEDALSLIHS AWQRSDSLCR GRASRDPMC

**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.**

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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.

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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.

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Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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Grade: custom-made

## Target Details

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Target: PLEKHM2

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Alternative Name: PLEKHM2 ([PLEKHM2 Products](#))

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Background: Pleckstrin homology domain-containing family M member 2 (PH domain-containing family M member 2) (Salmonella-induced filaments A and kinesin-interacting protein) (SifA and kinesin-interacting protein),FUNCTION: Plays a role in lysosomes movement and localization at the cell

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## Target Details

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periphery acting as an effector of ARL8B. Required for ARL8B to exert its effects on lysosome location, recruits kinesin-1 to lysosomes and hence direct their movement toward microtubule plus ends. Binding to ARL8B provides a link from lysosomal membranes to plus-end-directed motility (PubMed:28325809, PubMed:22172677, PubMed:25898167, PubMed:24088571). Critical factor involved in NK cell-mediated cytotoxicity. Drives the polarization of cytolytic granules and microtubule-organizing centers (MTOCs) toward the immune synapse between effector NK lymphocytes and target cells (PubMed:24088571). Required for maintenance of the Golgi apparatus organization (PubMed:22172677). May play a role in membrane tubulation (PubMed:15905402). {ECO:0000269|PubMed:15905402, ECO:0000269|PubMed:22172677, ECO:0000269|PubMed:24088571, ECO:0000269|PubMed:25898167, ECO:0000269|PubMed:28325809}.

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Molecular Weight: 112.8 kDa

UniProt: [Q8IWE5](#)

## Application Details

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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

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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