

Datasheet for ABIN7555990
VPS4A Protein (AA 1-437) (His tag)



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Overview

Quantity:	1 mg
Target:	VPS4A
Protein Characteristics:	AA 1-437
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This VPS4A protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat VPS4A Protein expressed in mammalien cells.
Sequence:	<p>MTTSTLQKAI DLVTKATEED KAKNYEEALR LYQHAVEYFL HAIKYEAHSD KAKESIRAKC VQYLDRAEKL KDYLRSKEKH GKPPVKENQS EGKGSDDSE GDNPEKKKLQ EQLMGAVVME KPNIRWNDVA GLEGAKEALK EAVILPIKFP HLFTGKRTPW RGILLFGPPG TGKSYLAKAV ATEANNSTFF SVSSDLMSK WLGESEKLVK NLFELARQHK PSIIFIDEVD SLCGSRNENE SEAARRIKTE FLVQMQGVGN NNDGTLVGA TNIPWVLSA IRRRFEKRIY IPLPEEAARA QMFRLHLGST PHNLTDANIH ELARKTEGYS GADISIIVRD SLMQPVRKVQ SATHFKKVCG PSRTNPSMMI DDLLTPCSPG DPGAMEMTWM DVPGDKLEP VVCMSDMLRS LATRPTVNA DDLLKVKKFS EDFGQES 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.</p>
Characteristics:	Key Benefits:

Product Details

- 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, Western Blot
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Grade:	custom-made
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Target Details

Target:	VPS4A
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Alternative Name:	VPS4A (VPS4A Products)
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Background:	<p>Vacuolar protein sorting-associated protein 4A (EC 3.6.4.6) (Protein SKD2) (VPS4-1) (hVPS4),FUNCTION: Involved in late steps of the endosomal multivesicular bodies (MVB) pathway. Recognizes membrane-associated ESCRT-III assemblies and catalyzes their disassembly, possibly in combination with membrane fission. Redistributes the ESCRT-III components to the cytoplasm for further rounds of MVB sorting. MVBs contain intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome and mostly are delivered to lysosomes enabling degradation of membrane proteins, such as stimulated growth factor receptors, lysosomal enzymes and lipids. It is required for proper accomplishment of various processes including the regulation of endosome size, primary cilium organization, mitotic spindle organization, chromosome segregation, and nuclear envelope sealing and spindle disassembly during anaphase (PubMed:33186545). Involved in cytokinesis: retained at the midbody by ZFYVE19/ANCHR and CHMP4C until abscission checkpoint signaling is terminated at late cytokinesis. It is then released following dephosphorylation of CHMP4C, leading to abscission (PubMed:24814515). VPS4A/B are</p>
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Target Details

required for the exosomal release of SDCBP, CD63 and syndecan (PubMed:22660413). Critical for normal erythroblast cytokinesis and correct erythropoiesis (PubMed:33186543). {ECO:0000269|PubMed:11563910, ECO:0000269|PubMed:15075231, ECO:0000269|PubMed:22660413, ECO:0000269|PubMed:24814515, ECO:0000269|PubMed:33186543, ECO:0000269|PubMed:33186545}., FUNCTION: (Microbial infection) In conjunction with the ESCRT machinery also appears to function in topologically equivalent membrane fission events, such as the terminal stages of cytokinesis and enveloped virus budding (HIV-1 and other lentiviruses). {ECO:0000269|PubMed:11595185}.

Molecular Weight: 48.9 kDa

UniProt: [Q9UN37](#)

Pathways: [Microtubule Dynamics](#), [CXCR4-mediated Signaling Events](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. 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