Datasheet for ABIN7552294

AP4M1 Protein (AA 1-453) (His tag)

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Overview

Quantity:	1 mg
Target:	AP4M1 (Ap4m1)
Protein Characteristics:	AA 1-453
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AP4M1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat AP4M1 Protein expressed in mammalien cells.
Sequence:	MISQFFILSS KGDPLIYKDF RGDSGGRDVA ELFYRKLTGL PGDESPVVMH HHGRHFIHIR HSGLYLVVTT SENVSPFSLL ELLSRLATLL GDYCGSLGEG TISRNVALVY ELLDEVLDYG YVQTTSTEML RNFIQTEAVV SKPFSLFDLS SVGLFGAETQ QSKVAPSSAA SRPVLSSRSD QSQKNEVFLD VVERLSVLIA SNGSLLKVDV QGEIRLKSFL PSGSEMRIGL TEEFCVGKSE LRGYGPGIRV DEVSFHSSVN LDEFESHRIL RLQPPQGELT VMRYQLSDDL PSPLPFRLFP SVQWDRGSGR LQVYLKLRCD LLSKSQALNV RLHLPLPRGV VSLSQELSSP EQKAELAEGA LRWDLPRVQG GSQLSGLFQM DVPGPPGPPS HGLSTSASPL GLGPASLSFE LPRHTCSGLQ VRFLRLAFRP CGNANPHKWV RHLSHSDAYV IRI **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.**

Product Details

Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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
Grade:	custom-made

Target Details

Target:	AP4M1 (Ap4m1)
Alternative Name:	AP4M1 (Ap4m1 Products)
Background:	AP-4 complex subunit mu-1 (AP-4 adaptor complex mu subunit) (Adaptor-related protein complex 4 subunit mu-1) (Mu subunit of AP-4) (Mu-adaptin-related protein 2) (mu-ARP2) (Mu4-adaptin) (mu4),FUNCTION: Component of the adaptor protein complex 4 (AP-4). Adaptor protein complexes are vesicle coat components involved both in vesicle formation and cargo selection. They control the vesicular transport of proteins in different trafficking pathways (PubMed:10436028, PubMed:11139587, PubMed:10066790, PubMed:11802162, PubMed:20230749). AP-4 forms a non clathrin-associated coat on vesicles departing the trans-Golgi network (TGN) and may be involved in the targeting of proteins from the trans-Golgi network (TGN) to the endosomal-lysosomal system (PubMed:11139587, PubMed:20230749). It is also involved in protein sorting to the basolateral membrane in epithelial cells and the proper asymmetric localization of somatodendritic proteins in neurons (By similarity). Within AP-4, the mu-type subunit AP4M1 is directly involved in the recognition and binding of tyrosine-based sorting signals found in the cytoplasmic part of cargos (PubMed:10436028, PubMed:11139587,

Target Details

	PubMed:26544806, PubMed:20230749). The adaptor protein complex 4 (AP-4) may also recognize other types of sorting signal (By similarity). {ECO:0000250|UniProtKB:E2RED8, ECO:0000250|UniProtKB:Q2PWT8, ECO:0000250|UniProtKB:Q9JKC7, ECO:0000269|PubMed:10066790, ECO:0000269|PubMed:10436028, ECO:0000269|PubMed:11139587, ECO:0000269|PubMed:11802162, ECO:0000269|PubMed:20230749, ECO:0000269|PubMed:26544806}.
Molecular Weight:	50.0 kDa
UniProt:	O00189

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