

Datasheet for ABIN7552168
AP4E1 Protein (AA 1-1137) (His tag)



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Overview

Quantity:	1 mg
Target:	AP4E1
Protein Characteristics:	AA 1-1137
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AP4E1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat AP4E1 Protein expressed in mammalian cells.
Sequence:	MSDIVEKTLT ALPGLFLQNN PGGGPAATAA SFSSRLGSLV RGITALTSKH EEEKLIQQEL SSLKATVSAP TTTLKMMKEC MVRLIYCEML GYDASFGYIH AIKLAQQGNL LEKRVGYLAV SLFLHESHEL LLLLNTVVK DLQSTNLVEV CMALTVVSI FPCEMIPAVL PLIEDKLQHS KEIVRRKAVL ALYKFHLIAP NQVQHIIKIF RKALCDRDVG VMAASLHIYL RMIKENSSEY KDLTGSFVTI LKQVVGKLP VEFNYHSVPA PWLQIQLLRI LGLLGKDDQR TSELMYDVLD ESLRRRAELNH NVTYAILFEC VHTVYSIYPK SELLEKAAKC IGKFLVSPKI NLKYLGLKAL TYVIQQDPTL ALQHQMTIIE CLDHPDPIIK RETLELLYRI TNAQNITVIV QKMLEYLHQS KEEYVIVNLV GKIAELAKEY APDNAWFIQT MNAVFSVGGD VMHPDIPNNF LRLLAEGFDD ETEDQQLRLY AVQSYLTLLD MENVFYPQRF LQVMSWVLGE YSYLLDKETP EEVIKLYKL LMNDSVSSET KAWLIAAVTK LTSQAHSNT VERLIHEFTI SLDTCMRQHA FELKHLHENV ELMKSLLPVD RSCEDLVVDA SLSFLDGFVA EGLSQGAAPY KPPHQRQEEK LSQEKVLNFE

Product Details

PYGLSFSSSG FTGRQSPAGI SLGSDVSGNS AETGLKETNS LKLEGIKKLW GKEGYLPKKE
SKTGDESGAL PVPQESIMEN VDQAITKKDQ SQVLTQSKEE KEKQLLASSL FVGLGSESTI
NLLGKADTVS HKFRRKSKVK EAKSGETTST HNMTCSSFSS LSNVAYEDDY YSNTLHDTGD
KELKKFSLTS ELLDSESLTE LPLVEKFSYC SLSTPSLFAN NNMEIFHPPQ STAASVAKES
SLASSFLEET TEYIHSNAME VCNNETISVS SYKIWKDDCL LMVWSVTNKS GLELKSADLE
IFPAENFKVT EQPGCCLPVM EAESTKSFQY SVQIEKPFTE GNLTGFISYH MMDTHSAQLE
FSVNLSLLDF IRPLKISSDD FGKLWLSFAN DVKQNVKMSE SQAALPSALK TLQQLRLHI
IEIIGNEGLL ACQLLPSIPC LLHCRVHADV LALWFRSSCS TLPDYLLYQC QKVMEGS **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.**

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, Western Blot

Grade:

custom-made

Target Details

Target:

AP4E1

Alternative Name:

AP4E1 ([AP4E1 Products](#))

Background:

AP-4 complex subunit epsilon-1 (AP-4 adaptor complex subunit epsilon) (Adaptor-related protein complex 4 subunit epsilon-1) (Epsilon subunit of AP-4) (Epsilon-adaptin),FUNCTION:

Target Details

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:10066790, PubMed:10436028). 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. It is also involved in protein sorting to the basolateral membrane in epithelial cells and the proper asymmetric localization of somatodendritic proteins in neurons. AP-4 is involved in the recognition and binding of tyrosine-based sorting signals found in the cytoplasmic part of cargos, but may also recognize other types of sorting signal (Probable). {ECO:0000269|PubMed:10066790, ECO:0000269|PubMed:10436028, ECO:0000305|PubMed:10066790, ECO:0000305|PubMed:10436028}.

Molecular Weight: 127.3 kDa

UniProt: [Q9UPM8](#)

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