

Datasheet for ABIN7552129

AP4B1 Protein (AA 1-739) (His tag)



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Overview

Quantity:	1 mg
Target:	AP4B1
Protein Characteristics:	AA 1-739
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AP4B1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat AP4B1 Protein expressed in mammalian cells.
Sequence:	<p>MPYLGSEDVV KELKKALCNP HIQADRLRYR NVIQRVIRYM TQGLDMSGVF MEMVKASATV</p> <p>DIVQKKLVYL YMCTYAPLKP DLALLAINTL CKDCSDPNPM VRGLALRSMC SLRMPGVQEY</p> <p>IQQPILNGLR DKASYVRRVA VLGCAMHNL HGDSEVDGAL VNELYSLLRD QDPIVVVNCL</p> <p>RSLEEILKQE GGVVINKPIA HHLLNRMSKL DQWGQAEVLN FLLRYQPRSE EELFDILNLL</p> <p>DSFLKSSSPG VVMGATKLFL ILAKMFPHVQ TDVLVRVKGP LLAACSSSR ELCFVALCHV</p> <p>RQILHSLPGH FSSHYKKFFC SYSEPHYIKL QKVEVLCELV NDENVQQVLE ELRGYCTDVS</p> <p>ADFAQAAIFA IGGIARTYTD QCVQILTELL GLRQEHITTV VVQTFRDLVW LCPQCTEAVC</p> <p>QALPGCEENI QDSEGKQALI WLLGVHGERI PNAPYVLEDF VENVKSETFP AVKMELLTAL</p> <p>LRLFLSRPAE CQDMLGRLLY YCIEEEKDMA VRDRGLFYR LLLVGIDEVK RILCSPKSDP</p> <p>TLGLLEDPAE RPVNSWASDF NTLVPVYGKA HWATISKQCG AERCDPELPK TSSFAASGPL</p> <p>IPEENKERVQ ELPDSGALML VPNRQLTADY FEKTWLSLKV AHQQVLPWRG EFHPDTLQMA</p>

LQVVNIQTIA MSRAGSRPWK AYLSAQDDTG CLFLTELLLE PGNSEMQISV KQNEARTETL
NSFISVLETV IGTIEEIKS **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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	AP4B1
Alternative Name:	AP4B1 (AP4B1 Products)
Background:	<p>AP-4 complex subunit beta-1 (AP-4 adaptor complex subunit beta) (Adaptor-related protein complex 4 subunit beta-1) (Beta subunit of AP-4) (Beta4-adaptin),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: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</p>

Target Details

	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:	83.3 kDa
UniProt:	Q9Y6B7

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