Datasheet for ABIN7564269

AP4E1 Protein (AA 1-1122) (His tag)

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Overview

Quantity:	1 mg
Target:	AP4E1
Protein Characteristics:	AA 1-1122
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AP4E1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Ap4e1 Protein expressed in mammalian cells.
Sequence:	MSDMVERTLT ALPGLFLQNQ LGGPAASRAP FFSRLGGLIR GVTALSSKHE EEKLIQQELS SLKATVSAPT TTLKTMKECM VRLIYCEMLG YDASFGYIHA IKLAQQGNLL EKRVGYLAVS LFLHESHELL LLLVNTVVKD LQSTNLVEVC MALTVVSQIF PREMIPAVLP LIEDKLQHSK EIIRRKAVLA LYKFYLIAPN QVQHIHTKFR KALCDRDVGV MAASLHIYLR MIKENASGYK DLTESFVTIL KQVVGGKLPV EFSYHSVPAP WLQIQLLRIL GLLGKDDERT SELMYDVLDE SLRRAELNHN VTYAILFECV HTIYSIYPKS ELLEKAAKCI GKFVLSPKIN LKYLGLKALT YVIQQDPSLA LQHQITIIEC LDHPDPIIKR ETLELLYRIT NAQNVVVIVQ KMLEYLHQSK EEHIIISLVG RIAELAEKYA PDNVWFIQTM NAVFSVGGDV MHPDILSNFL RLLAEGFDDE TEDQQLRLYA VQSYLTLLDM ENTFYPQRFL QVMSWVLGEY SYLLDKESPE EVITRLYKLL MSDSISSETK AWLFAAVTKL TPQAHSSPLV EKLIQEFTVS LNTCLRQHAF ELKHLHENTE LMKSLLQGAQ NCEDIVADAS LSFLDGFVAE GLSQGAAPYK PHHQRQEEQL SQEKVLNFEP YGLSFSSSGF TGRQSPAGIS LGSDISGNSA ETGLKETSSL KMEGIKKLWG KEGYLPKKES GTGDKPEASH

Product Details

	VPAEGATVEN VDQATTRKDQ AQGHIPSTEE KEKQLLASSL FVGLGPENTV DLLGKADVVS HKFRRKSKLK VAQSDKTPSA PTAPCSALSL GSDVAGGDED GLSAVDRGDG ELSSELFRSE SLSGPPSAEK LESVSLPVPS LFADNNMEVF NPPSSSATST VKEETPECRH SGLVEICSNE AVSVSSYKVW RDDCLLVIWA VTSKTDSEFT DAQLEIFPVE NFKIIEQPEC SSPVIETERT KSFQYSVQME SPCIEGTLSG FIKYQMMDTH SVQLEFSMNL PLLDFIRPLK ISTEDFGKLW LSFANDVKQT IKISEPGVAL TSVLTELQQN LRLRVIDVIG NEGLLACKLL PSTPCVLHCR VHADAVALWF RSSSSVLSDY LSCHCQKVMQ TS **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.**
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.
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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
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

Target Details

	protein complex 4 subunit epsilon-1) (Epsilon subunit of AP-4) (Epsilon-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. 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. {ECO:0000250|UniProtKB:Q9UPM8}.
Molecular Weight:	124.8 kDa
UniProt:	Q80V94

Application Details

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

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