Datasheet for ABIN7552454

ATP13A2 Protein (AA 1-1180) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	ATP13A2
Protein Characteristics:	AA 1-1180
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP13A2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ATP13A2 Protein expressed in mammalian cells.
Sequence:	MSADSSPLVG STPTGYGTLT IGTSIDPLSS SVSSVRLSGY CGSPWRVIGY HVVVWMMAGI PLLLFRWKPL WGVRLRLRPC NLAHAETLVI EIRDKEDSSW QLFTVQVQTE AIGEGSLEPS PQSQAEDGRS QAAVGAVPEG AWKDTAQLHK SEEAVSVGQK RVLRYYLFQG QRYIWIETQQ AFYQVSLLDH GRSCDDVHRS RHGLSLQDQM VRKAIYGPNV ISIPVKSYPQ LLVDEALNPY YGFQAFSIAL WLADHYYWYA LCIFLISSIS ICLSLYKTRK QSQTLRDMVK LSMRVCVCRP GGEEEWVDSS ELVPGDCLVL PQEGGLMPCD AALVAGECMV NESSLTGESI PVLKTALPEG LGPYCAETHR RHTLFCGTLI LQARAYVGPH VLAVVTRTGF CTAKGGLVSS ILHPRPINFK FYKHSMKFVA ALSVLALLGT IYSIFILYRN RVPLNEIVIR ALDLVTVVVP PALPAAMTVC TLYAQSRLRR QGIFCIHPLR INLGGKLQLV CFDKTGTLTE DGLDVMGVVP LKGQAFLPLV PEPRRLPVGP LLRALATCHA LSRLQDTPVG DPMDLKMVES TGWVLEEEPA ADSAFGTQVL AVMRPPLWEP QLQAMEEPPV PVSVLHRFPF SSALQRMSVV VAWPGATQPE AYVKGSPELV AGLCNPETVP TDFAQMLQSY TAAGYRVVAL ASKPLPTVPS LEAAQQLTRD TVEGDLSLLG

Product Details

	LLVMRNLLKP QTTPVIQALR RTRIRAVMVT GDNLQTAVTV ARGCGMVAPQ EHLIIVHATH PERGQPASLE FLPMESPTAV NGVKDPDQAA SYTVEPDPRS RHLALSGPTF GIIVKHFPKL LPKVLVQGTV FARMAPEQKT ELVCELQKLQ YCVGMCGDGA NDCGALKAAD VGISLSQAEA SVVSPFTSSM ASIECVPMVI REGRCSLDTS FSVFKYMALY SLTQFISVLI LYTINTNLGD LQFLAIDLVI TTTVAVLMSR TGPALVLGRV RPPGALLSVP VLSSLLLQMV LVTGVQLGGY FLTLAQPWFV PLNRTVAAPD NLPNYENTVV FSLSSFQYLI LAAAVSKGAP FRRPLYTNVP FLVALALLSS VLVGLVLVPG LLQGPLALRN ITDTGFKLLL LGLVTLNFVG AFMLESVLDQ CLPACLRRLR PKRASKKRFK QLERELAEQP WPPLPAGPLR **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:	ATP13A2
Alternative Name:	ATP13A2 (ATP13A2 Products)

Target Details

Background:	Polyamine-transporting ATPase 13A2 (EC 7.6.2.-),FUNCTION: ATPase which acts as a lysosomal polyamine exporter with high affinity for spermine (PubMed:31996848). Also stimulates cellular uptake of polyamines and protects against polyamine toxicity (PubMed:31996848). Plays a role in intracellular cation homeostasis and the maintenance of neuronal integrity (PubMed:22186024). Contributes to cellular zinc homeostasis (PubMed:24603074). Confers cellular protection against Mn(2+) and Zn(2+) toxicity and mitochondrial stress (PubMed:26134396). Required for proper lysosomal and mitochondrial maintenance (PubMed:22296644, PubMed:28137957). Regulates the autophagy-lysosome pathway through the control of SYT11 expression at both transcriptional and post-translational levels (PubMed:27278822). Facilitates recruitment of deacetylase HDAC6 to lysosomes to deacetylate CTTN, leading to actin polymerization, promotion of autophagosome-lysosome fusion and completion of autophagy (PubMed:30538141). Promotes secretion of exosomes as well as secretion of SCNA via exosomes (PubMed:25392495, PubMed:24603074). Plays a role in lipid homeostasis (PubMed:31132336). {ECO:0000269|PubMed:22186024, ECO:0000269|PubMed:22296644, ECO:0000269|PubMed:24603074, ECO:0000269|PubMed:25392495, ECO:0000269|PubMed:26134396, ECO:0000269|PubMed:27278822, ECO:0000269|PubMed:28137957, ECO:0000269|PubMed:30538141, ECO:0000269|PubMed:31132336, ECO:0000269|PubMed:31996848}.
Molecular Weight:	128.8 kDa
UniProt:	Q9NQ11
Pathways:	Ribonucleoside Biosynthetic Process

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.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

