Datasheet for ABIN7552459

ATP2B3 Protein (AA 1-1220) (His tag)

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Overview

Quantity:	1 mg
Target:	ATP2B3
Protein Characteristics:	AA 1-1220
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP2B3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ATP2B3 Protein expressed in mammalian cells.
Sequence:	MGDMANSSIE FHPKPQQQRD VPQAGGFGCT LAELRTLMEL RGAEALQKIE EAYGDVSGLC RRLKTSPTEG LADNTNDLEK RRQIYGQNFI PPKQPKTFLQ LVWEALQDVT LIILEVAAIV SLGLSFYAPP GEESEACGNV SGGAEDEGEA EAGWIEGAAI LLSVICVVLV TAFNDWSKEK QFRGLQSRIE QEQKFTVIRN GQLLQVPVAA LVVGDIAQVK YGDLLPADGV LIQANDLKID ESSLTGESDH VRKSADKDPM LLSGTHVMEG SGRMVVTAVG VNSQTGIIFT LLGAGGEEEE KKDKKGKQQD GAMESSQTKA KKQDGAVAME MQPLKSAEGG EMEEREKKKA NAPKKEKSVL QGKLTKLAVQ IGKAGLVMSA ITVIILVLYF VIETFVVEGR TWLAECTPVY VQYFVKFFII GVTVLVVAVP EGLPLAVTIS LAYSVKKMMK DNNLVRHLDA CETMGNATAI CSDKTGTLTT NRMTVVQSYL GDTHYKEIPA PSALTPKILD LLVHAISINS AYTTKILPPE KEGALPRQVG NKTECALLGF VLDLKRDFQP VREQIPEDKL YKVYTFNSVR KSMSTVIRMP DGGFRLFSKG ASEILLKKCT NILNSNGELR GFRPRDRDDM VRKIIEPMAC DGLRTICIAY RDFSAGQEPD WDNENEVVGD LTCIAVVGIE DPVRPEVPEA IRKCQRAGIT VRMVTGDNIN TARAIAAKCG

Product Details

	IIQPGEDFLC LEGKEFNRRI RNEKGEIEQE RLDKVWPKLR VLARSSPTDK HTLVKGIIDS TTGEQRQVVA VTGDGTNDGP ALKKADVGFA MGIAGTDVAK EASDIILTDD NFTSIVKAVM WGRNVYDSIS KFLQFQLTVN VVAVIVAFTG ACITQDSPLK AVQMLWVNLI MDTFASLALA TEPPTESLLL RKPYGRDKPL ISRTMMKNIL GHAVYQLAII FTLLFVGELF FDIDSGRNAP LHSPPSEHYT IIFNTFVMMQ LFNEINARKI HGERNVFDGI FSNPIFCTIV LGTFGIQIVI VQFGGKPFSC SPLSTEQWLW CLFVGVGELV WGQVIATIPT SQLKCLKEAG HGPGKDEMTD EELAEGEEEI DHAERELRRG QILWFRGLNR IQTQIRVVKA FRSSLYEGLE KPESKTSIHN FMATPEFLIN DYTHNIPLID DTDVDENEER LRAPPPPSPN QNNNAIDSGI YLTTHVTKSA TSSVFSSSPG SPLHSVETSL **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:	ATP2B3
Alternative Name:	ATP2B3 (ATP2B3 Products)

Target Details

Background:	Plasma membrane calcium-transporting ATPase 3 (PMCA3) (EC 7.2.2.10) (Plasma membrane calcium ATPase isoform 3) (Plasma membrane calcium pump isoform 3),FUNCTION: ATP-driven Ca(2+) ion pump involved in the maintenance of basal intracellular Ca(2+) levels at the presynaptic terminals (PubMed:25953895, PubMed:27035656, PubMed:22912398, PubMed:18029012). Uses ATP as an energy source to transport cytosolic Ca(2+) ions across the plasma membrane to the extracellular compartment (PubMed:25953895, PubMed:27035656). May counter-transport protons, but the mechanism and the stoichiometry of this Ca(2+)/H(+) exchange remains to be established (By similarity). {ECO:0000250|UniProtKB:Q64568, ECO:0000269|PubMed:18029012, ECO:0000269|PubMed:22912398, ECO:0000269|PubMed:25953895, ECO:0000269|PubMed:27035656}.
Molecular Weight:	134.2 kDa
UniProt:	Q16720
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.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months