Datasheet for ABIN7552436

ATP2C2 Protein (AA 1-946) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	ATP2C2
Protein Characteristics:	AA 1-946
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP2C2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat ATP2C2 Protein expressed in mammalien cells.
Sequence:	MVEGRVSEFL KKLGFSGGGR QYQALEKDEE EALIDEQSEL KAIEKEKKVT ALPPKEACKC QKEDLARAFC VDLHTGLSEF SVTQRRLAHG WNEFVADNSE PVWKKYLDQF KNPLILLLLG SALVSVLTKE YEDAVSIATA VLVVVTVAFI QEYRSEKSLE ELTKLVPPEC NCLREGKLQH LLARELVPGD VVSLSIGDRI PADIRLTEVT DLLVDESSFT GEAEPCSKTD SPLTGGGDLT TLSNIVFMGT LVQYGRGQGV VIGTGESSQF GEVFKMMQAE ETPKTPLQKS MDRLGKQLTL FSFGIIGLIM LIGWSQGKQL LSMFTIGVSL AVAAIPEGLP IVVMVTLVLG VLRMAKKRVI VKKLPIVETL GCCSVLCSDK TGTLTANEMT VTQLVTSDGL RAEVSGVGYD GQGTVCLLPS KEVIKEFSNV SVGKLVEAGC VANNAVIRKN AVMGQPTEGA LMALAMKMDL SDIKNSYIRK KEIPFSSEQK WMAVKCSLKT EDQEDIYFMK GALEEVIRYC TMYNNGGIPL PLTPQQRSFC LQEEKRMGSL GLRVLALASG PELGRLTFLG LVGIIDPPRV GVKEAVQVLS ESGVSVKMIT GDALETALAI GRNIGLCNGK LQAMSGEEVD SVEKGELADR VGKVSVFFRT SPKHKLKIIK

Product Details

	ALQESGAIVA MTGDGVNDAV ALKSADIGIA MGQTGTDVSK EAANMILVDD DFSAIMNAVE EGKGIFYNIK NFVRFQLSTS ISALSLITLS TVFNLPSPLN AMQILWINII MDGPPAQSLG VEPVDKDAFR QPPRSVRDTI LSRALILKIL MSAAIIISGT LFIFWKEMPE DRASTPRTTT MTFTCFVFFD LFNALTCRSQ TKLIFEIGFL RNHMFLYSVL GSILGQLAVI YIPPLQRVFQ TENLGALDLL FLTGLASSVF ILSELLKLCE KYCCSPKRVQ MHPEDV **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 mammalien 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:	ATP2C2
Alternative Name:	ATP2C2 (ATP2C2 Products)
Background:	Calcium-transporting ATPase type 2C member 2 (ATPase 2C2) (EC 7.2.2.10) (Ca(2+)/Mn(2+)-ATPase 2C2) (Secretory pathway Ca(2+)-transporting ATPase type 2) (SPCA2),FUNCTION: ATP-driven pump that supplies the Golgi apparatus with Ca(2+) and Mn(2+) ions, both essential cofactors for processing and trafficking of newly synthesized proteins in the secretory pathway (PubMed:15831496, PubMed:16332677, PubMed:30923126, PubMed:15677451). Within a

Target Details

	catalytic cycle, acquires Ca(2+) or Mn(2+) ions on the cytoplasmic side of the membrane and delivers them to the lumenal side. The transfer of ions across the membrane is coupled to ATP hydrolysis and is associated with a transient phosphorylation that shifts the pump conformation from inward-facing to outward-facing state (PubMed:15831496, PubMed:16332677). Induces Ca(2+) influx independently of its ATP-driven pump function. At the basolateral membrane of mammary epithelial cells, interacts with Ca(2+) channel ORAI1 and mediates Ca(2+) entry independently of the Ca(2+) content of endoplasmic reticulum or Golgi stores. May facilitate transepithelial transport of large quantities of Ca(2+) for milk secretion via activation of Ca(2+) influx channels at the plasma membrane and active Ca(2+) transport at the Golgi apparatus (PubMed:23840669, PubMed:20887894). {ECO:0000269|PubMed:15677451, ECO:0000269|PubMed:15831496, ECO:0000269|PubMed:16332677, ECO:0000269|PubMed:20887894, ECO:0000269|PubMed:23840669, ECO:0000269|PubMed:30923126}.
Molecular Weight:	103.2 kDa
UniProt:	O75185
Pathways:	Ribonucleoside Biosynthetic Process

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

