Datasheet for ABIN7554695

Myosin VI Protein (MYO6) (AA 1-1294) (His tag)

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Overview

Quantity:	1 mg
Target:	Myosin VI (MYO6)
Protein Characteristics:	AA 1-1294
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Myosin VI protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant MYO6 Protein expressed in mammalian cells.
Sequence:	MEDGKPVWAP HPTDGFQMGN IVDIGPDSLT IEPLNQKGKT FLALINQVFP AEEDSKKDVE DNCSLMYLNE ATLLHNIKVR YSKDRIYTYV ANILIAVNPY FDIPKIYSSE AIKSYQGKSL GTRPPHVFAI ADKAFRDMKV LKMSQSIIVS GESGAGKTEN TKFVLRYLTE SYGTGQDIDD RIVEANPLLE AFGNAKTVRN NNSSRFGKFV EIHFNEKSSV VGGFVSHYLL EKSRICVQGK EERNYHIFYR LCAGASEDIR EKLHLSSPDN FRYLNRGCTR YFANKETDKQ ILQNRKSPEY LKAGSMKDPL LDDHGDFIRM CTAMKKIGLD DEEKLDLFRV VAGVLHLGNI DFEEAGSTSG GCNLKNKSAQ SLEYCAELLG LDQDDLRVSL TTRVMLTTAG GTKGTVIKVP LKVEQANNAR DALAKTVYSH LFDHVVNRVN QCFPFETSSY FIGVLDIAGF EYFEHNSFEQ FCINYCNEKL QQFFNERILK EEQELYQKEG LGVNEVHYVD NQDCIDLIEA KLVGILDILD EENRLPQPSD QHFTSAVHQK HKDHFRLTIP RKSKLAVHRN IRDDEGFIIR HFAGAVCYET TQFVEKNNDA LHMSLESLIC ESRDKFIREL FESSTNNNKD TKQKAGKLSF ISVGNKFKTQ LNLLLDKLRS TGASFIRCIK PNLKMTSHHF EGAQILSQLQ CSGMVSVLDL MQGGYPSRAS FHELYNMYKK

	YMPDKLARLD PRLFCKALFK ALGLNENDYK FGLTKVFFRP GKFAEFDQIM KSDPDHLAEL VKRVNHWLTC SRWKKVQWCS LSVIKLKNKI KYRAEACIKM QKTIRMWLCK RRHKPRIDGL VKVGTLKKRL DKFNEVVSVL KDGKPEMNKQ IKNLEISIDT LMAKIKSTMM TQEQIQKEYD ALVKSSEELL SALQKKKQQE EEAERLRRIQ EEMEKERKRR EEDEKRRRKE EEERRMKLEM EAKRKQEEEE RKKREDDEKR IQAEVEAQLA RQKEEESQQQ AVLEQERRDR ELALRIAQSE AELISDEAQA DLALRRSLDS YPVSKNDGTR PKMTPEQMAK EMSEFLSRGP AVLATKAAAG TKKYDLSKWK YAELRDTINT SCDIELLAAC REEFHRRLKV YHAWKSKNKK RNTETEQRAP KSVTDYDFAP FLNNSPQQNP AAQIPARQRE IEMNRQQRFF RIPFIRPADQ YKDPQSKKKG WWYAHFDGPW IARQMELHPD KPPILLVAGK DDMEMCELNL EETGLTRKRG AEILPRQFEE IWERCGGIQY LQNAIESRQA RPTYATAMLQ SLLK **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:	Myosin VI (MYO6)
Alternative Name:	MYO6 (MYO6 Products)
Background:	Unconventional myosin-VI (Unconventional myosin-6),FUNCTION: Myosins are actin-based motor molecules with ATPase activity (By similarity). Unconventional myosins serve in intracellular movements (By similarity). Myosin 6 is a reverse-direction motor protein that moves towards the minus-end of actin filaments (PubMed:10519557). Has slow rate of actin-activated ADP release due to weak ATP binding (By similarity). Functions in a variety of intracellular processes such as vesicular membrane trafficking and cell migration (By similarity). Required for the structural integrity of the Golgi apparatus via the p53-dependent pro-survival pathway (PubMed:16507995). Appears to be involved in a very early step of clathrin-mediated endocytosis in polarized epithelial cells (PubMed:11447109). Together with TOM1, mediates delivery of endocytic cargo to autophagosomes thereby promoting autophagosome maturation and driving fusion with lysosomes (PubMed:23023224). Links TOM1 with autophagy receptors, such as TAX1BP1, CALCOCO2/NDP52 and OPTN (PubMed:31371777). May act as a regulator of F-actin dynamics (By similarity). As part of the DISP complex, may regulate the association of septins with actin and thereby regulate the actin cytoskeleton (PubMed:29467281). May play a role in transporting DAB2 from the plasma membrane to specific cellular targets (By similarity). May play a role in the extension and network organization of neurites (By similarity). Required for structural integrity of inner ear hair cells (By similarity). Modulates RNA polymerase II-dependent transcription (PubMed:16949370). {ECO:0000250|UniProtKB:Q29122, ECO:0000250|UniProtKB:Q64331, ECO:0000269|PubMed:10519557, ECO:0000269|PubMed:11447109, ECO:0000269|PubMed:16507995, ECO:0000269|PubMed:16949370, ECO:0000269|PubMed:23023224, ECO:0000269|PubMed:29467281, ECO:0000269|PubMed:31371777}.
Molecular Weight:	149.7 kDa
UniProt:	Q9UM54
Pathways:	Sensory Perception of Sound, Dicarboxylic Acid Transport, Asymmetric Protein Localization

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

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