antibodies

Datasheet for ABIN3135589 Myosin VI Protein (MYO6) (AA 1-1265) (His tag)





Overview

Quantity:	1 mg
Target:	Myosin VI (MYO6)
Protein Characteristics:	AA 1-1265
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Myosin VI protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MEDGKPVWAP HPTDGFQMGN IVDIGPDSLT IEPLNQKGKT FGALINQVFP AEEDSKKDVE
	DNCSLMYLNE ATLLHNVKVR YSKDRIYTYV ANILIAVNPY FDIPKIYSSD TIKSYQGKSL
	GTMPPHVFGI ADKAFRDMKV LKMSQSIIVS GESGAGKTEN TKFGSKIPDR ILWTGQDIDD
	RIVEANPLLE AFGNAKTVRN NNSSRFGKFV EIHFNEKSSV VGGFVSHYLL EKSRICVQGK
	EERNHHIFYR LCAGASEDIR EKLHLSSPDN FRYLNRGCTR FFANKETDKQ ILQNRKSPEY
	VKAGSLEGSS IRRPWRFYQD VHSHEKNWFG MMKKNFDLFR VVAGVLHLGN IDLEEAGSTS
	GGCNLKNKSA PSLEYCAELL GLDQDDLRVS LTTRVMLTTA GGTKGTVIKV PLKVEQANNA
	RDALAKTVYS HLFDHVVNRV NQCFPFETSS YFIGVLDIAG FEYFEHNSFE QFCINYCNEK
	LQQFFNERIL KEEQELYQKE GLGVNEVHYV DNQDCIELIE VKLVGILDIL DEENRLPQPS
	DQHFTSVVHQ KHKDHFRLTI PRKSKLAVHR NLRDDEGFII RQLCRGRVLR RQPQYGGGKN
	NDALHMSLES LICESRDKFI RALFESSTNN SKDTKQKAGK LSFISVGNKF KTQLNLLLDK
	LRSTGASFIR CIKPNLKMAS HHFEGAQILS QLQCSGMVSV LDLMQGGFPS RASFHELYNM

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	YKKYMPEKLP RLDPRLFCKP LFKALGLNEV DYKFGLTQVF FRPGKFAEFD QIMKSDPDHL
	AELVKRVNLW LVCSRWKKVQ WCSLSVIKLK NKIKYRAEAC IKMQKPIRMW LCKRRHNPRI
	DGLVKVGTLK KRLDKFNEVV SALKDGKPEV NRQIKNLEIS IDALMAKFTS TMMTREQIQK
	EYDALVKSSE DLLSALQKKK QQEEEAERLR RIQEEMEKER KRREEDEERR RKEEEERRMK
	LEMEPKRKQE EEERKKREDD EKRIQSEVEA QLARQREEES QQQAVLAQEC RDRELALRIA
	QNESELISDE AQGDMALRRG PAVQATKAAS GTKKHDLSKW KYAELRDTIN TSCDIELLAA
	CREEFHRRLK VYHAWKSKNK KRNTETEQRA PKSVTDYDFA PFLNNSPQQN PAAQLPARQQ
	EIDMKRQQRF FRIPFIRPAD QYKDPQNKKK GWWYAHFDGP WIARQMELHP DKPPILLVAG
	KDDMEMCELN LEETGLTRKR GAEILPRQFE EIWERCGGIQ YLQSAIESRQ ARPTYATAML QNLLK
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Myo6 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
	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 will ensure that you receive a correctly folded protein.
	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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate

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	fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	Myosin VI (MYO6)
Alternative Name:	Myo6 (MYO6 Products)
Background:	Myosins are actin-based motor molecules with ATPase activity. Unconventional myosins serve in intracellular movements. Myosin 6 is a reverse-direction motor protein that moves towards the minus-end of actin filaments. Has slow rate of actin-activated ADP release due to weak ATP binding. Functions in a variety of intracellular processes such as vesicular membrane trafficking and cell migration. Required for the structural integrity of the Golgi apparatus via the p53-dependent pro-survival pathway. Appears to be involved in a very early step of clathrin- mediated endocytosis in polarized epithelial cells. May act as a regulator of F-actin dynamics. May play a role in transporting DAB2 from the plasma membrane to specific cellular targets. Required for structural integrity of inner ear hair cells.
Molecular Weight:	147.4 kDa Including tag.
UniProt:	Q64331
Pathways:	Sensory Perception of Sound, Dicarboxylic Acid Transport, Asymmetric Protein Localization
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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible

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Application Details	
	options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images

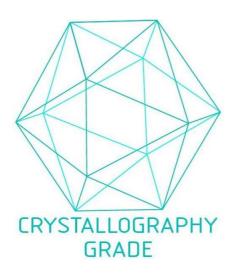


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process