antibodies

Datasheet for ABIN3089705 ATP2A3 Protein (AA 111-253) (His tag)





Overview

Quantity:	1 mg
Target:	ATP2A3
Protein Characteristics:	AA 111-253
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP2A3 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)
Product Details	
Sequence:	NAESAIEALK EYEPEMGKVI RSDRKGVQRI RARDIVPGDI VEVAVGDKVP ADLRLIEIKS
	TTLRVDQSIL TGESVSVTKH TEAIPDPRAV NQDKKNMLFS GTNITSGKAV GVAVATGLHT
	ELGKIRSQMA AVEPERTPLQ RKL
	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.
	 Human ATP2A3 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade. State-of-the-art algorithm used for plasmid design (Gene synthesis)
	ensure crystallization grade.
	ensure crystallization grade.State-of-the-art algorithm used for plasmid design (Gene synthesis).

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	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 bacterial culture:
	 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 fractions are analyzed by SDS-PAGE.
	 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:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade
Target Details	
Target:	ATP2A3
Alternative Name:	ATP2A3 (ATP2A3 Products)
Background:	This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport
	of calcium. Transports calcium ions from the cytosol into the sarcoplasmic/endoplasmic
	reticulum lumen. Contributes to calcium sequestration involved in muscular
	excitation/contraction. {ECO:0000269 PubMed:11956212, ECO:0000269 PubMed:15028735}.

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Target Details		
Molecular Weight:	16.5 kDa Including tag.	
UniProt:	Q93084	
Pathways:	Myometrial Relaxation and Contraction, 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.	
Comment:	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 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:

Expiry Date:

Store at -80°C.

Unlimited (if stored properly)

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

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