antibodies

Datasheet for ABIN3094007 Myosin IA Protein (MYO1A) (AA 1-1043) (Strep Tag)



Overview

Image

Quantity:	1 mg
Target:	Myosin IA (MYO1A)
Protein Characteristics:	AA 1-1043
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Myosin IA protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MPLLEGSVGV EDLVLLEPLV EESLLKNLQL RYENKEIYTY IGNVVISVNP YQQLPIYGPE
	FIAKYQDYTF YELKPHIYAL ANVAYQSLRD RDRDQCILIT GESGSGKTEA SKLVMSYVAA
	VCGKGEQVNS VKEQLLQSNP VLEAFGNAKT IRNNNSSRFG KYMDIEFDFK GSPLGGVITN
	YLLEKSRLVK QLKGERNFHI FYQLLAGADE QLLKALKLER DTTGYAYLNH EVSRVDGMDD
	ASSFRAVQSA MAVIGFSEEE IRQVLEVTSM VLKLGNVLVA DEFQASGIPA SGIRDGRGVR
	EIGEMVGLNS EEVERALCSR TMETAKEKVV TALNVMQAQY ARDALAKNIY SRLFDWIVNR
	INESIKVGIG EKKKVMGVLD IYGFEILEDN SFEQFVINYC NEKLQQVFIE MTLKEEQEEY
	KREGIPWTKV DYFDNGIICK LIEHNQRGIL AMLDEECLRP GVVSDSTFLA KLNQLFSKHG
	HYESKVTQNA QRQYDHTMGL SCFRICHYAG KVTYNVTSFI DKNNDLLFRD LLQAMWKAQH
	PLLRSLFPEG NPKQASLKRP PTAGAQFKSS VAILMKNLYS KSPNYIRCIK PNEHQQRGQF
	SSDLVATQAR YLGLLENVRV RRAGYAHRQG YGPFLERYRL LSRSTWPHWN GGDREGVEKV
	LGELSMSSGE LAFGKTKIFI RSPKTLFYLE EQRRLRLQQL ATLIQKIYRG WRCRTHYQLM

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3094007 | 04/16/2024 | Copyright antibodies-online. All rights reserved. RKSQILISSW FRGNMQKKCY GKIKASVLLI QAFVRGWKAR KNYRKYFRSE AALTLADFIY KSMVQKFLLG LKNNLPSTNV LDKTWPAAPY KCLSTANQEL QQLFYQWKCK RFRDQLSPKQ VEILREKLCA SELFKGKKAS YPQSVPIPFC GDYIGLQGNP KLQKLKGGEE GPVLMAEAVK KVNRGNGKTS SRILLLTKGH VILTDTKKSQ AKIVIGLDNV AGVSVTSLKD GLFSLHLSEM SSVGSKGDFL LVSEHVIELL TKMYRAVLDA TQRQLTVTVT EKFSVRFKEN SVAVKVVQGP AGGDNSKLRY KKKGSHCLEV TVQ

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALICE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

• The concentration of our recombinant proteins is measured using the absorbance at 280nm.

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	 The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

(MIHC),FUNCTION: Involved in directing the movement of organelles along act {ECO:0000305}. Molecular Weight: 118.4 kDa UniProt: Q9UBC5 Pathways: Sensory Perception of Sound Application Details In addition to the applications listed above we expect the protein to work for fur as well. As the protein has not been tested for functional studies yet we cannot guarantee though. Comment: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate of the specific cell set of the		
Background: Unconventional myosin-la (Brush border myosin I) (BBM-I) (BBMI) (Myosin I he (MIHC),FUNCTION: Involved in directing the movement of organelles along act (ECO:0000305). Molecular Weight: 118.4 kDa UniProt: Q9UBC5 Pathways: Sensory Perception of Sound Application Details In addition to the applications listed above we expect the protein to work for fu as well. As the protein has not been tested for functional studies yet we cannor guarantee though. Comment: ALICE®, our Almost Living Cell-Free Expression System is based on a lysate of	Target:	Myosin IA (MY01A)
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UniProt: Q9UBC5 Pathways: Sensory Perception of Sound Application Details In addition to the applications listed above we expect the protein to work for fur as well. As the protein has not been tested for functional studies yet we cannot guarantee though. Comment: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate of	Background:	Unconventional myosin-Ia (Brush border myosin I) (BBM-I) (BBMI) (Myosin I heavy chain) (MIHC),FUNCTION: Involved in directing the movement of organelles along actin filaments. {ECO:0000305}.
Pathways: Sensory Perception of Sound Application Details In addition to the applications listed above we expect the protein to work for fur as well. As the protein has not been tested for functional studies yet we cannot guarantee though. Comment: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate of the state of th	Molecular Weight:	118.4 kDa
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	Comment:	ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational

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	modifications.
	During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	something that functions like a cell, but without the constraints of a living system - all that's
	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

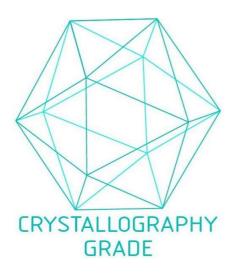


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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