Datasheet for ABIN3083956

MTMR9 Protein (AA 1-549) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	MTMR9
Protein Characteristics:	AA 1-549
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MTMR9 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MEFAELIKTP RVDNVVLHRP FYPAVEGTLC LTGHHLILSS RQDNTEELWL LHSNIDAIDK RFVGSLGTII IKCKDFRIIQ LDIPGMEECL NIASSIEALS TLDSITLMYP FFYRPMFEVI EDGWHSFLPE QEFELYSSAT SEWRLSYVNK EFAVCPSYPP IVTVPKSIDD EALRKVATFR HGGRFPVLSY YHKKNGMVIM RSGQPLTGTN GRRCKEDEKL INATLRAGKR GYIIDTRSLN VAQQTRAKGG GFEQEAHYPQ WRRIHKSIER YHILQESLIK LVEACNDQTH NMDRWLSKLE ASNWLTHIKE ILTTACLAAQ CIDREGASIL IHGTEGTDST LQVTSLAQII LEPRSRTIRG FEALIEREWL QAGHPFQQRC AQSAYCNTKQ KWEAPVFLLF LDCVWQILRQ FPCSFEFNEN FLIMLFEHAY ASQFGTFLGN NESERCKLKL QQKTMSLWSW VNQPSELSKF TNPLFEANNL VIWPSVAPQS LPLWEGIFLR WNRSSKYLDE AYEEMVNIIE YNKELQAKVN ILRRQLAELE TEDGMQESP **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 in one-step affinity chromatography • 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 try to ensure that you receive soluble 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 post-translational 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. • The protein's absorbance will be measured against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	MTMR9
Alternative Name:	MTMR9 (MTMR9 Products)
Background:	Myotubularin-related protein 9 (Inactive phosphatidylinositol 3-phosphatase 9),FUNCTION: Acts as an adapter for myotubularin-related phosphatases (PubMed:19038970, PubMed:22647598). Increases lipid phosphatase MTMR6 catalytic activity, specifically towards phosphatidylinositol 3,5-bisphosphate and MTMR6 binding affinity for phosphorylated phosphatidylinositols (PubMed:19038970, PubMed:22647598). Positively regulates lipid phosphatase MTMR7 catalytic activity (By similarity). Increases MTMR8 catalytic activity towards phosphatidylinositol 3-phosphate (PubMed:22647598). The formation of the MTMR6-MTMR9 complex, stabilizes both MTMR6 and MTMR9 protein levels (PubMed:19038970). Stabilizes MTMR8 protein levels (PubMed:22647598). Plays a role in the late stages of macropinocytosis possibly by regulating MTMR6-mediated dephosphorylation of phosphatidylinositol 3-phosphate in membrane ruffles (PubMed:24591580). Negatively regulates autophagy, in part via its association with MTMR8 (PubMed:22647598). Negatively regulates DNA damage-induced apoptosis, in part via its association with MTMR6 (PubMed:19038970, PubMed:22647598). Does not bind mono-, di- and tri-phosphorylated phosphatidylinositols, phosphatidic acid and phosphatidylserine (PubMed:19038970). {ECO:0000250|UniProtKB:Q9Z2D0, ECO:0000269|PubMed:19038970, ECO:0000269|PubMed:22647598, ECO:0000269|PubMed:24591580}.
Molecular Weight:	63.5 kDa
UniProt:	Q96QG7

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:	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 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

Application Details

	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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months