Datasheet for ABIN7549566

MTMR6 Protein (AA 1-621) (His tag)

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Overview

Quantity:	1 mg
Target:	MTMR6
Protein Characteristics:	AA 1-621
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MTMR6 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat MTMR6 Protein expressed in mammalien cells.
Sequence:	MEHIRTTKVE QVKLLDRFST SNKSLTGTLY LTATHLLFID SHQKETWILH HHIASVEKLA LTTSGCPLVI QCKNFRTVHF IVPRERDCHD IYNSLLQLSK QAKYEDLYAF SYNPKQNDSE RLQGWQLIDL AEEYKRMGVP NSHWQLSDAN RDYKICETYP RELYVPRIAS KPIIVGSSKF RSKGRFPVLS YYHQDKEAAI CRCSQPLSGF SARCLEDEHL LQAISKANPV NRYMYVVMDTR PKLNAMANRA AGKGYENEDN YSNIRFQFVG IENIHVMRSS LQKLLEVNGT KGLSVNDFYS GLESSGWLRH IKAVMDAAIF LAKAITVENA SVLVHCSDGW DRTSQVCSLG SLLLDSYYRT IKGFMVLIEK DWISFGHKFS ERCGQLDGDP KEVSPVFTQF LECVWHLTEQ FPQAFEFSEA FLLQIHEHIH SCQFGNFLGN CQKEREELKL KEKTYSLWPF LLEDQKKYLN PLYSSESHRF TVLEPNTVSF NFKFWRNMYH QFDRTLHPRQ SVFNIIMNMN EQNKQLEKDI KDLESKIKQR KNKQTDGILT KELLHSVHPE SPNLKTSLCF KEQTLLPVND ALRTIEGSSP ADNRYSEYAE EFSKSEPAVV SLEYGVARMT C **Sequence without tag. The proposed Purification-Tag is**

Product Details

	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.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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, Western Blot
Grade:	custom-made

Target Details

Target:	MTMR6
Alternative Name:	MTMR6 (MTMR6 Products)
Background:	Myotubularin-related protein 6 (Phosphatidylinositol-3,5-bisphosphate 3-phosphatase) (EC 3.1.3.95) (Phosphatidylinositol-3-phosphate phosphatase) (EC 3.1.3.64),FUNCTION: Phosphatase that acts on lipids with a phosphoinositol headgroup (PubMed:19038970, PubMed:22647598). Dephosphorylates phosphatidylinositol 3-phosphate (PtdIns(3)P) and phosphatidylinositol 3,5-bisphosphate (PubMed:19038970, PubMed:22647598) (Probable). Binds with high affinity to phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) but also to phosphatidylinositol 3-phosphate (PtdIns(3)P), phosphatidylinositol 4-phosphate (PtdIns(4)P), and phosphatidylinositol 5-phosphate (PtdIns(5)P), phosphatidic acid and phosphatidylserine (PubMed:19038970). Negatively regulates ER-Golgi protein transport (By similarity). Probably in association with MTMR9, plays a role in the late stages of macropinocytosis by dephosphorylating phosphatidylinositol 3-phosphate in membrane ruffles (PubMed:24591580).

Target Details

	Acts as a negative regulator of KCNN4/KCa3.1 channel activity in CD4(+) T-cells possibly by decreasing intracellular levels of phosphatidylinositol 3-phosphate (PubMed:15831468). Negatively regulates proliferation of reactivated CD4(+) T-cells (PubMed:16847315). In complex with MTMR9, negatively regulates DNA damage-induced apoptosis (PubMed:19038970, PubMed:22647598). The formation of the MTMR6-MTMR9 complex stabilizes both MTMR6 and MTMR9 protein levels (PubMed:19038970). {ECO:0000250|UniProtKB:A0A0G2JXT6, ECO:0000269|PubMed:15831468, ECO:0000269|PubMed:16847315, ECO:0000269|PubMed:19038970, ECO:0000269|PubMed:22647598, ECO:0000269|PubMed:24591580, ECO:0000305|PubMed:24591580}.
Molecular Weight:	72.0 kDa
UniProt:	Q9Y217
Pathways:	Inositol Metabolic 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.
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