

Recombinant Human MTMR6 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MTMR6-807H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MTMR6 MS Standard C13 and N15-labeled recombinant protein (NP_004676) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Phosphatase that acts on lipids with a phosphoinositol headgroup. Dephosphorylates phosphatidylinositol 3-phosphate (PtdIns3P) and phosphatidylinositol 3,5-bisphosphate (Probable). Binds with high affinity to phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) but also to phosphatidylinositol 3-phosphate (PtdIns3P), phosphatidylinositol 4-phosphate (PtdIns4P), and phosphatidylinositol 5-phosphate (PtdIns5P), phosphatidic acid and phosphatidylserine. Negatively regulates ER-Golgi protein transport. Probably in association with MTMR9, plays a role in the late stages of macropinocytosis by dephosphorylating phosphatidylinositol 3-phosphate in membrane ruffles. Acts as a negative regulator of KCNN4/KCa3.1 channel activity in CD4+ T-cells possibly by decreasing intracellular levels of phosphatidylinositol 3-phosphate. Negatively regulates proliferation of reactivated CD4+ T-cells. In complex with MTMR9, negatively regulates DNA damage-induced apoptosis. The formation of the MTMR6-MTMR9 complex stabilizes both MTMR6 and MTMR9 protein levels.
Molecular Mass	71.8 kDa

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AA Sequence

MEHIRTTKVEQVKLLDRFSTSNKSLTGTLYLTATHLLFIDSHQKETWILHHHIASVEKL
 ALTTSGCPLVIQCKNFRTVHFIVPRERDCHDIYNSLLQLSKQAKYEDLYAFSYNPKQN
 DSERLQGWQLIDLAEYKRMGVPNSHWQLSDANRDYKICETYPRELYVPRIASKPII
 VGSSKFRSKGRFPVLSYYHQDKEAAICRCSQPLSGFSARCLEDEHLLQAISKANPVN
 RYMYVMDTRPKLNAMANRAAGKGYENEDNYSNIRFQFVGIENIHVMRSSLQKLLEV
 NGTKGLSVNDFYSGLESSGWLRIKAVMDAAVFLAKAITVENASVLVHCSDGWDRT
 SQVCSLGSLLLDSSYYRTIKGFMVLEIKDWISFGHKFSERCGQLDGDPEVSPVFTQF
 LECVWHLTEQFPQAFEFSEAFLLQIHEHIHSCQFGNFLGNCQKEREELKLKEKTYSL
 WPFLLEDQKKYLNPLYSSSHRFTVLEPNTVSFNFKFWRNMYHQFDRTLHPRQSVF
 NIIMNMNEQNKQLEKDIKDLESKIKQRKNKQTDGILTKELLHSVHPESP NLKTS LCFKE
 QTLLPVNDALRTIEGSSPADNRYSEYAEFSKSEPAVVSLEYGVARMTCTRTRPLEQ
 KLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration

50 µg/mL as determined by BCA

Storage Buffer

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION
Gene Name

MTMR6 myotubularin related protein 6 [Homo sapiens (human)]

Official Symbol

MTMR6

Synonyms

MTMR6; myotubularin related protein 6; myotubularin-related protein 6;

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Gene ID	9107
mRNA Refseq	NM_004685
Protein Refseq	NP_004676
MIM	603561
UniProt ID	Q9Y217
SDS-PAGE	