

Product datasheet for TP308069M

MTMR6 (NM_004685) Human Recombinant Protein

Product data:

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|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human myotubularin related protein 6 (MTMR6), 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC208069 representing NM_004685 Red=Cloning site Green=Tags(s) |

MEHIRTTKVEQVKLLDRFSTSNKSLTGTLYLTATHLLFIDSHQKETWILHHHIASVEKLALTTSGCPLVI
QCKNFRTVHFIVPRERDCHDIYNSLLQLSKQAKYEDLYAFSYNPKQNDSELRQGWQLIDLAEYKRMGVP
NSHWQLSDANRDYKICETYPRELYVPRIASKPIIVGSSKFRSKGRFPVLSYYHQDKEAAICRCSQPLSGF
SARCLEDEHLLQAISKANPVNRYMYVMDTRPKLNAMANRAAGKGYENEDNYSNIRFQVGIENIHVMRSS
LQKLELVNGTKGLSVNDFYSGLESSGWL RHIAVMDAAVFLAKAITVENASVLVHCSGDGWDRTS QVCSLG
SLLLDSSYRTIKGFMVLIKDWISFGHKFSERCGQLDGDPEVSPVFTQFLECVWHLTEQFPQAFEFSEA
FLLQIHEHIHSCQFGNFLGNCQKEREELKLEKTYSLWPFLLEDQKKYLNPLYSSSESHRFTVLEPNTVSF
NFKFWRNMYHQFDRTLHPRQSVFNIIMNMNEQNKQLEKDIKDLESKIKQRKNKQTDGILTCELLHSVHPE
SPNLKTSLCFKEQTLLPVNDALRTIEGSSPADNRYSEYAEFSKSEPAVVSLEYGVARMTC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

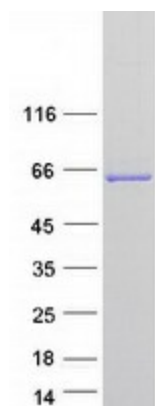
| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 71.8 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |



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|--------------------------|---|
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_004676 |
| Locus ID: | 9107 |
| UniProt ID: | Q9Y217 |
| RefSeq Size: | 4201 |
| Cytogenetics: | 13q12.13 |
| RefSeq ORF: | 1863 |
| Summary: | <p>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). 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). [UniProtKB/Swiss-Prot Function]</p> |
| Protein Families: | Druggable Genome, Phosphatase |
| Protein Pathways: | Fructose and mannose metabolism, Metabolic pathways, Riboflavin metabolism, Thiamine metabolism |

Product images:



Coomassie blue staining of purified MTMR6 protein (Cat# [TP308069]). The protein was produced from HEK293T cells transfected with MTMR6 cDNA clone (Cat# [RC208069]) using MegaTran 2.0 (Cat# [TT210002]).