

Product datasheet for TP303922M

TMEM24 (C2CD2L) (NM_014807) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human C2CD2-like (C2CD2L), 100 µg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC203922 protein sequence
Red=Cloning site **Green**=Tags(s)

MDPGWGQRDVGWAALLILFAASLLTVFAWLLQYARGLWLRARGDRGPGPALAGEPAGSLRELGVWRSLL
RLRATRAGAAEPEGVRGLLASLFAFKSFRENWQRAWVRALNEQACRNGSSIQIAFEEVPQLPPRASISHV
TCVDQSEHTMVLRCQLSAEEVRFVSVTQQSPAAVSMETYHVTLTLPTQLEVNLEEIPGEGLLISWAFT
DRPDLSTVLPKLQARERGEEQVELSTIEELIKDAIVSTQPAMMVNLRACSAAGGLVPSEKPPMMPQAQP
AIPRPNRLFLRQLRASHLGNELEGTEELCCVAELDNPMQKQWTKPARAGSEVEWTELDALDLGPQSRELT
LKVLRSSSCGDTELLGQATLPVGSPSRPLSRRQLCPLTPGPGKALGPAATMAVELHYEEGSPRNLTPTS
STPRPSITPKKIELDRTIMPDGTIVTTVTTVQSRPRIDGKLDSPSRSPSKVEVTEKTTTTLSESSGPSN
TSHSSSRDHLNGLDPAETAIRQLTEPSGRVAKKTPKTRSTLIISGVSQVPIAQDELALSLGYAASLE
ASVQDDAGTSGGPPSPSPDPPAMSPGPLDALSSPTSVQEADETTTSDISERPSVDDIESETGSTGALETR
SLKDHKVSFLRSGTKLIFRRRPRQKEAGLSQSHDDLSTATATPSVRKKAGSFSRRLIKRFSFKSKPKANG
NPSPQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 76 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_055622](#)

Locus ID: 9854

UniProt ID: [O14523](#)

RefSeq Size: 3402

Cytogenetics: 11q23.3

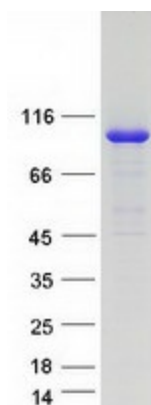
RefSeq ORF: 2118

Synonyms: DLNB23; TMEM24

Summary: Lipid-binding protein that transports phosphatidylinositol, the precursor of phosphatidylinositol 4,5-bisphosphate (PI(4,5)P2), from its site of synthesis in the endoplasmic reticulum to the cell membrane (PubMed:28209843). It thereby maintains the pool of cell membrane phosphoinositides, which are degraded during phospholipase C (PLC) signaling (PubMed:28209843). Plays a key role in the coordination of Ca(2+) and phosphoinositide signaling: localizes to sites of contact between the endoplasmic reticulum and the cell membrane, where it tethers the two bilayers (PubMed:28209843). In response to elevation of cytosolic Ca(2+), it is phosphorylated at its C-terminus and dissociates from the cell membrane, abolishing phosphatidylinositol transport to the cell membrane (PubMed:28209843). Positively regulates insulin secretion in response to glucose: phosphatidylinositol transfer to the cell membrane allows replenishment of PI(4,5)P2 pools and calcium channel opening, priming a new population of insulin granules (PubMed:28209843).[UniProtKB/Swiss-Prot Function]

Protein Families: Transmembrane

Product images:



Coomassie blue staining of purified C2CD2L protein (Cat# [TP303922]). The protein was produced from HEK293T cells transfected with C2CD2L cDNA clone (Cat# [RC203922]) using MegaTran 2.0 (Cat# [TT210002]).