

Product datasheet for PH303922

TMEM24 (C2CD2L) (NM_014807) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	C2CD2L MS Standard C13 and N15-labeled recombinant protein (NP_055622)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203922
Predicted MW:	76.2 kDa
Protein Sequence:	>RC203922 protein sequence Red=Cloning site Green=Tags(s)

MDPGWGQRDVGWAAALLILFAASLLTVFAWLLQYARGLWLARARGDRGPGPALAGEPAGSLRELGVWRSLL
RLRATRAGAAEPEGVGRLLASLFAFKSFRENWQRAWRALNEQACRNGSSIQIAFEEVPQLPPRASISHV
TCVDQSEHTMVLRCQLSAEEVRFVSVTQQSPAAYSMETYHVTLTLPTQLEVNLEEIPGEGLLISWAFT
DRPDLSTVLPKLRAREREGEEQVELSTIEELIKDAIVSTQPAMMVNLRACSAAGGLVPSEKPPMMPQAQP
AIPRPNRLFLRQLRASHLGNELEGTEELCCVAELDNPMQKWKPARAGSEVEWTEDLALDLGPQSRELT
LKVLRSSSCGDTELLGQATLPVGSPPSRPLSRRQLCPLTPGPGKALGPAATMAVELHYEESPRNLGTPTS
STPRPSITPTKKIELDRTIMPDGTIVTTVTTVQSRPRIDGKLDSPSRSPSKVEVTEKTTTTLSESSGPSN
TSHSSSRDShLSNGLDPVAETAIRQLTEPSGRVAKKTPTKRSTLIIISGVSKVPIAQDELALSLGYAASLE
ASVQDDAGTSGGPSSPPSDPPAMSPGPLDALSSPTSVQEADETTSDISERPSVDDIESETGSTGALETR
SLKDHKVSFLRSGTKLIFRRRPRQKEAGLSQSHDDL SNATATPSVRKKAGSFSRRLIKRFSFKSKPKANG
NPSPQL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_055622



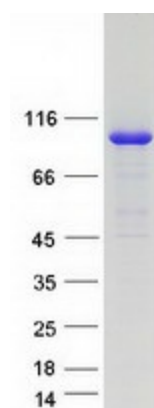
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RefSeq Size:	3402
RefSeq ORF:	2118
Synonyms:	DLNB23; TMEM24
Locus ID:	9854
UniProt ID:	O14523
Cytogenetics:	11q23.3

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]).