

Product datasheet for TP510165

C2cd2I (NM_027909) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse C2 calcium-dependent domain containing 2-like (C2cd2I), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA	>MR210165 protein sequence
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MDPDWGQRDVGWAALLVLFASLITVLGWMLQYARGLWLSRADGGRDRSPASAAEPGGSLRELGVWRSL
RLRATRTSTPEEAGVRGLLASLFAFKSFRENWQRAWVRALNEQACRDGSSIQIAFEEIQLPBRASISHV
TCVDQSERTMVLHCQLSAEEVRFPIVSVTQQSPAASMETVHVTLLPPTQLEVSLEEIPDEGLLVSWAFT
DRPELSLKVLPKLTREERDEEQPELSTVEELIKDAIVSTQPAMMVNLRACSAAGGLVPSEKPPPTMSQAQP
SIPRPTFLRQLRASHLGSELGGTEELCAAELDNPMQKWKPMRAGPEVEWTEDLALDLGPQSRELT
LKVLRSSSCGDAELLGQATLPVGSPPSRPMSRRQVCPPLTPGPGKSLSPAATVTAELHVEQGSPPNLGTPTS
STPRPSITPTKKIELDRTIMPDGTVVTTVTVQSRPRVDGKLDSPSRSPKVEVTEKMTTVLSESSGSPN
ASHSSRESHLSNGLDPVAETAIRQLTEPSGRAAKKTPTRSTLIISGVSKVPIAQDELVLSLGYAASLE
ASMQDDAGTSGGPSSPPSDPSATSPGPVDALSSPTSQVEADETTRSDISERPSVDDVESETGSTGALETR
SLKDHKVSFLRSGTKLIFRRRPRQKEAGLSQSHDDLSTTATPSVRKKAGSFSRRLIKRFSFKSKPKANG
NPSPQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	76.4 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
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 after receiving vials.



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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_082185
Locus ID:	71764
UniProt ID:	Q80X80 , Q9DBI2 , Q3U590
RefSeq Size:	4334
Cytogenetics:	9 A5.2
RefSeq ORF:	2121
Synonyms:	1300006O23Rik; Tmem24
Summary:	<p>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 (By similarity). It thereby maintains the pool of cell membrane phosphoinositides, which are degraded during phospholipase C (PLC) signaling (By similarity). 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 (By similarity). 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 (By similarity). Positively regulates insulin secretion in response to glucose (PubMed:24012759). 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 (By similarity). [UniProtKB/Swiss-Prot Function]</p>