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Product datasheet for TP507674

Pi4k2a (BC022127) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse phosphatidylinositol 4-kinase type 2 alpha (cDNA clone MGC:37783 IMAGE:5097465), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR207674 representing BC022127 Red=Cloning site Green=Tags(s) MDETSPLVSPERAQPPEYTFPSGSGAHFPQVPGGAVRVAAAAGSGPSPPCSPGHDRERQPLLDRARGAAA QGQTHTVAVQAQALAAQAAVAAHAVQTHRERNDFPEDPEFEVVVRQAEVAIECSIYPERIYQGSSGSYFV KDSQGRIVAVFKPKNEEPYGHLNPKWTKWLQKLCCPCCFGRDCLVLNQGYLSEAGASLVDQKLELNIVPR TKVVYLASETFNYSAIDRVKSRGKRLALEKVPKVGQRFNRIGLPPKVGSFQLFVEGYKDADYWLRRFEAE PLPENTNRQLLLQFERLVVLDYIIRNTDRGNDNWLIKYDCPMDNSSCRDTDWVMVREPVIKVAAIDNGLA FPLKHPDSWRAYPFYWAWLPQAKVPFSQEIKDLILPKISDPNFIKDLEEDLYELFKRDPGFDRGQFHKQI AVMRGQILNLTQALKDNKSPLHLVQMPPVIVETARSHQRSASESYTQSFQSRKPFFSWW 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
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.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Locus ID:	84095

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UniProt ID:	Q2TBE6
RefSeq Size:	1960
Cytogenetics:	19 35.74 cM
RefSeq ORF:	1437
Synonyms:	MGC37783, Pi4k2
Summary:	Membrane-bound phosphatidylinositol-4 kinase (PI4-kinase) that catalyzes the phosphorylation of phosphatidylinositol (PI) to phosphatidylinositol 4-phosphate (PI4P), a lipid that plays important roles in endocytosis, Golgi function, protein sorting and membrane trafficking and is required for prolonged survival of neurons. Besides, phosphorylation of phosphatidylinositol (PI) to phosphatidylinositol 4-phosphate (PI4P) is the first committed step in the generation of phosphatidylinositol 4,5-bisphosphate (PIP2), a precursor of the second messenger inositol 1,4,5-trisphosphate (InsP3).[UniProtKB/Swiss-Prot Function]