

Product datasheet for **TP304185M**

PHKA2 (NM_000292) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human phosphorylase kinase, alpha 2 (liver) (PHKA2), 100 µg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC204185 protein sequence
Red=Cloning site Green=Tags(s)

MRSRSNSGVRLDGYARLVQQTILCYQNPVTGLLSASHEQKDAWVRDNIYSILAVWGLGMAYRKNADRDED
 KAKAYELEQNWVKLMRGLLQCMRQVAKVEKFKHTQSTKDSLHAKYNTATCGTVVGGDQWGHQLQVDATSL
 FLLFLAQM T ASGLRIIFTLDEVAFIQNLVFIYAAYKVADYGMW ERGDKTNQGIPELNASSVGM AKA ALE
 AIDELDLFGAHGGRKSVIHVLPDEVEHCQSILFSMLPRASTSKEIDAGLLSIISFPAFAVEDVNLVNVTK
 NEIISKLQGRYGCCRFLRDGYKTPREDPNRLHYDPAELKLFENIECEWPFVWTFIIDGVFSGDAVQVQE
 YREALEGILIRGKNGIRLVPELYAVPPNKVDEEYKNPHTVDRVPMGKVPHLWGQSLYILSSLLAEGFLAA
 GEIDPLNRRFSTSVKPDVVVQVTVLAENNHKDLLRKHGVNVQSIADIHPIQVQPRILSHIYAKLGRNK
 NMNLSGRPYRHIGVLGTSKLYVIRNQIFTFPQFTDEHHFYALALDNEMIVEMLRIELAYLCTCWRMTGRP
 TLTFPISRTMLTNDGSDIHS AVLSTIRKLEDGYFGGARVKLGNLSEFLTTSFYTYLTFDPDCDEKLFDN
 ASEGTFSPDSDSDLVGYLEDTCNQESQDEL DHYINHLLQSTSLRSYLPPLCKNTEDRHFVSAIHSTRDIL
 SVMAKAKGLEVPFVPM TLP TKVLSAHRKSLNLVDSPQPLEKVPESDFQWPRDDHSDVDCEKLV EQLKDC
 SNLQDQADILYILYVIKGPSWDTNL SGQHGVTVQNLLGELYGKAGLNQEWGLIRYISGLLRKKVEVLAEA
 CTDLLSHQKQLTVGLPPEPREKIISAPLPPEELTKLIYEASGQDISIAVLTQEIVWYLA MYVRAQPSLFV
 EMLRLRIGLIQVMATELARS LNCSGEEASESLMNLSPFDMKNLLHHILSGKEFGVERS VRPIHSSTSSP
 TISIHEVGHTGVTKTERSGINRLRSEM KQMTRRFSADEQFFSVGQAASSSAHSSKSARSSTPSSPTGTSS
 SDSGGHHIGWGERQGGQWLR RRRRLDGAINRVPVGFYQRVWKILQKCHGLSIDGYVLPSTTREMTPHEIKF
 AVHVESV LNRPVQPPEYRQLLVEAIMVLTLLSDTEMTSIGGIIHVDQIVQMASQLFLQDQV SIGAMDTLEK
 DQATGICHFFYDSAPSGAYGTMTYLTRAVASYLQELLPN SGCQMQ

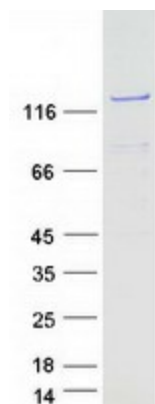
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 138.2 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining



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|--------------------------|--|
| 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. |
| 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_000283 |
| Locus ID: | 5256 |
| UniProt ID: | P46019 |
| RefSeq Size: | 5325 |
| Cytogenetics: | Xp22.13 |
| RefSeq ORF: | 3705 |
| Synonyms: | GSD9A; PHK; PYK; PYKL; XLG; XLG2 |
| Summary: | <p>Phosphorylase kinase is a polymer of 16 subunits, four each of alpha, beta, gamma and delta. The alpha subunit includes the skeletal muscle and hepatic isoforms, and the hepatic isoform is encoded by this gene. The beta subunit is the same in both the muscle and hepatic isoforms, and encoded by one gene. The gamma subunit also includes the skeletal muscle and hepatic isoforms, which are encoded by two different genes. The delta subunit is a calmodulin and can be encoded by three different genes. The gamma subunits contain the active site of the enzyme, whereas the alpha and beta subunits have regulatory functions controlled by phosphorylation. The delta subunit mediates the dependence of the enzyme on calcium concentration. Mutations in this gene cause glycogen storage disease type 9A, also known as X-linked liver glycogenosis. Alternatively spliced transcript variants have been reported, but the full-length nature of these variants has not been determined.[provided by RefSeq, Feb 2010]</p> |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Calcium signaling pathway, Insulin signaling pathway |

Product images:

Coomassie blue staining of purified PHKA2 protein (Cat# [TP304185]). The protein was produced from HEK293T cells transfected with PHKA2 cDNA clone (Cat# [RC204185]) using MegaTran 2.0 (Cat# [TT210002]).