

Recombinant Human PHKA2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PHKA2-5072H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PHKA2 MS Standard C13 and N15-labeled recombinant protein (NP_000283) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	138.4 kDa
AA Sequence	MRSRSNSGVRLDGYARLVQQTILCYQNPVTGLLSASHEQKDAWVRDNIYSILAVWG

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LGMAYRKNADRDEDKAKAYELEQNVVKLMRGLLQCMMRQVAKVEKFKHTQSTKDS
 LHAKYNTATCGTVVGDDQWGHLLQVDATSLFLLFLAQMTASGLRIIFTLDEVAFIQNLV
 FYIEAAYKVADYGMWERGDKTNQGIPELNASSVGMAKAALEAIDELDFGAHGGGRK
 SVIHVLPDEVEHCQSILFSMLPRASTSKEIDAGLLSIISFPAFAVEDVNLVNVTKNEIISK
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 DAVQVQEYREALEGILIRGKNGIRLVPELYAVPPNKVDEEYKNPHTVDRVPMGKVP
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 GNVVQSIADHPIQVQPGRILSHIYAKLGRNKNMNLSGRPYRHIGVLGTSKLYVIRNQI
 FTFTPQFTDEHHFYALDNEMIVEMLRIELAYLCTCWRMTGRPTLTFPISRTMLTNDG
 SDIHS AVLSTIRKLEDGYFGGARVKLGNLSEFLTTSFYTYLTFLDPDCDEKLF DNASE
 GTFSPDSDSDLVGYLEDTCNQESQDELDHYINHLLQSTSLRSYLPPLCKNTEDRHVF
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 NLLGELYGKAGLNQEWGLIRYISGLLRKKVEVLAEACTDLLSHQKQLTVGLPPEPRE
 KIISAPLPPEELTKLIYEASGQDISIAVLTQEIVVYLAMYVRAQPSLFVEMLRRLRIGLIQV
 MATELARSLNCSGEEASESLMNLSPFDMKNLLHHILSGKEFGVERSVRPIHSSTSSP
 TISIHEVGHTGVTKTERSGINRLRSEMKQMTRRFSADEQFFSVGQAASSSAHSSKSA
 RSSTPSSPTGTSSSDSGHHIGWGERQGGQWLRRRRRLDGAINRVPVGFYQRVWKIL
 QKCHGLSIDGYVLPSSTTREMPHEIKFAVHVESVLNRVPQPEYRQLLVEAIMVLTLL
 SDTEMTSIGGIIHVDQIVQMASQLFLQDQVSIGAMDTLEKDQATGICHFFYDSAPSGA
 YGTMTYLTRAVASYLQELLPNSGCQMQRTRPLEQKLISEEDLAANDILDYKDDDDK
 V

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

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Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PHKA2 phosphorylase kinase regulatory subunit alpha 2 [Homo sapiens (human)]

Official Symbol PHKA2

Synonyms PHKA2; phosphorylase kinase, alpha 2 (liver); PHK, PYK; phosphorylase b kinase regulatory subunit alpha, liver isoform; phosphorylase kinase alpha-subunit; phosphorylase kinase alpha L subunit; phosphorylase b kinase regulatory subunit alpha liver isoform; PHK; PYK; XLG; PYKL; XLG2; GSD9A; MGC133071;

Gene ID 5256

mRNA Refseq NM_000292

Protein Refseq NP_000283

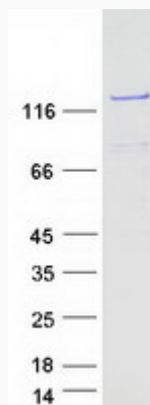
MIM 300798

UniProt ID P46019

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SDS-PAGE

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