

Product datasheet for PH304185

PHKA2 (NM_000292) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PHKA2 MS Standard C13 and N15-labeled recombinant protein (NP_000283)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204185
Predicted MW:	138.4 kDa
Protein Sequence:	>RC204185 protein sequence Red=Cloning site Green=Tags(s)

MRSRSNSGVRLDGYARLVQQTILCYQNPVTGLLSASHEQKDAWVRDNIYSILAVWGLGMAYRKNADRDED
KAKAYELEQNVVVKLMRGLLQCMMRQVAKVEKFKHTQSTKDSLHAKYNTATCGTVVGGDQWGHLLQVDATSL
FLLFLAQM TASGLRIIFTLDEVAFIQNLVFIYEAAYKVADYGMWGERGDKTNQGIPELNASSVGMKAALAE
AIDELDLFGAHGGRKSVIHVLPDEVEHCQSILFMSLPRASTSKEIDAGLLSII SFPFAVEDVNLVNVTK
NEIISKLGQRYGCCRFLRDGYKTPREDPNRLHYDPAELKLFENIECEWPFWTFYFIDGVFSGDAVQVQE
YREALEGILIRKNGIRLVPELVAVPPNKVDEEYKNPHTVDRVPMGKVPHLWGQSLYILSSLLAEGFLAA
GEIDPLNRRFSTSVKPDVVVQVTVLAENNIKDLLRKHGVNVQSIADIHP IQVQGRILSHIYAKLGRNK
NMNL SGRPYRHIGVLGTSKLYVIRNQIFTFTPQFTDEHHFYALDNEMIVEMLRIELAYLCTCWRMTGRP
TLTFPISRMTLNDGSDIHSAVLSTIRKLEDGYFGGARVKGNLSEFLTTSFYTYLTFLLDPDCDEKLFDN
ASEGTFSPDSDDL VGYLEDTCNQESQDEL DHYINHLQSTSLRSYLPPLCKNTEDRHVFS AIHSTRDIL
SVMKAKGLEVPFVPM TLP TKVLSAHRKSLNLVDSPPQPLEKVPESDFQWPRDDHSDVDCEKLVEQLKDC
SNLQDQADILYILYVIKGPSWDNL SGQHGVTVQNLGELYGKAGLNQEWGLIRYISGLLRKKVEVLAE
CTDLLSHQKQLTVGLPPEPREKII SAPLPPEELTKLIYEASGQDISIAVLTQEI VVYLAMYVRAQPSLFV
EMLRLRIGLIIQVMATELARS LNCSGEEASELMNLSPFDMKNLLHHILSGKEFGVERSVRPIHSSTSSP
TISIHEVGHTGVTKTERSGINRLRSEM KQMTRRFSADEQFFSVGQAASSSAHSSKSARSSTPSSPTGTSS
SDSGGHHIGWGERQGWLRRRRLDGA INRVPGFYQRVWKILQKCHGLSIDGYLPSSTTREMTPHEIKF
AVHVESVLRVPOPEYRQLLVEAIMVLTLLSDTEMTSIGGIHVDQIVQMASQLFLQDQVSI GAMDTLEK
DQATGICHFFYDSAPSGAYGTM TYL TRAVASYLQELLPN SGCQM Q

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

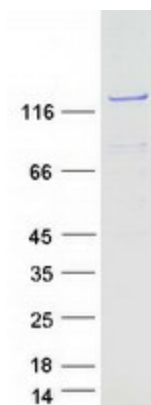
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine



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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_000283
RefSeq Size:	5325
RefSeq ORF:	3705
Synonyms:	GSD9A; PHK; PYK; PYKL; XLG; XLG2
Locus ID:	5256
UniProt ID:	P46019
Cytogenetics:	Xp22.13
Summary:	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]
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]).