

## Product datasheet for PH311553

### PHKA1 (NM\_002637) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PHKA1 MS Standard C13 and N15-labeled recombinant protein (NP_002628)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211553
Predicted MW:	135.81 kDa
Protein Sequence:	>RC211553 representing NM_002637 Red=Cloning site Green=Tags(s)

MRSRSNSGVRLDGYARLVQQTILCHQNPVTGLLPASYDQKDAWVRDNVYSILAVWGLGLAYRKNADRDED  
KAKAYELEQSVVKLMRGLLHCMIRQVDKVESFKYSQSTKDSLHAKYNTKTCATVVGDQWGHQLDQTSV  
YLLFLAQM TASGLHIHSLDEVNFIQNLVFIIEAAYKTADFGIWERGDKTNQGISSELNASSVGMKAALAE  
ALDELDFGVKGGPQSVIHVLADEVQHCQSILNSLLPRASTSKEVDASLLSVVSFPFAVEDSQLVELTK  
QEIIITKLQGRYGCCRFLRDGYKTPKEDPNRLYYEPAELKLFENIECEWPLFWTYFILDGVFSGNAEQVQE  
YKEALEAVLIKGNKGVPLPELVSVPPDRVDEEYQNPHTVDRVPMGKLPHMWQSLYILGSLMAEGFLAP  
GEIDPLNRRFSTVPKPDVVVQVSILAETEEIKTILKDKGIYVETIAEVYPIRVQPARILSHIYSSLGCNN  
RMKLSGRPYRHMVGLGTSKLYDIRKTIFFTFPQFIDQQQFYALDNKMI VEMLRTDLSYLC SRWRMTGQP  
TITFPI SHSMLDE DGTSLNSSILAALRKMQDGYFGGARVQTGKLEFLTSCCTHLSFMDPGPEGKLYSE  
DYDDNYDYLESGNWMNDYDSTSHARCGDEVARYLDHLLAHTAPHPKLAPT SQKGGDRFQA AVQTTC DLM  
SLVTKAKELHVQNVHMYLPTKLFQASRPSFNLLDSPHRQENQVPSVRVEIHLPRDQSGEVDFKALVQL  
KETSSLQEADILYMLYTMKGPDWNTL YNERSATVRELL TELYGKVG EIRHWGL IRYISGILRKKVEAL  
DEACTDLLSHQKHLTVGLPPEPREKTI SAPLPYEAL TQLIDEASEGDM S I S I L T Q E I M V Y L A M Y M R T Q P G  
LFAEMFRLRIGLIIQVMATELAHSLRCSAEEATEGLMNLSPSAMKNLLHHILSGKEFGVERSVRPTDSNV  
SPAISIHEIGAVGATK TERTGIMQLKSEIKQSPGTSMTSPSSGFP SAYDQQSSKDSRQGGWQRRRLDGA  
LNRVPVGFYQKVKVQLKCHGLSVEGFVLPSSTTREMPGEIKFSVHVESV LNRVPQPEYRQLLVEAILV  
LTMLADIEIHSIGSIIAVEKIVHIANDLFLQEQKTLGADDTMLAKDPASGICTLLYDSAPSGRFGTMTYL  
SKAAATYVQEFLPHSICAMQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

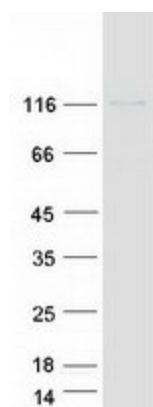
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_002628</a>
RefSeq Size:	4215
RefSeq ORF:	1509
Synonyms:	PHKA
Locus ID:	5255
UniProt ID:	<a href="#">P46020</a>
Cytogenetics:	Xq13.1
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 skeletal muscle 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 9D, also known as X-linked muscle glycogenosis. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene. A pseudogene has been found on chromosome 1.[provided by RefSeq, Feb 2010]
Protein Families:	Druggable Genome
Protein Pathways:	Calcium signaling pathway, Insulin signaling pathway

### Product images:



Coomassie blue staining of purified PHKA1 protein (Cat# [TP311553]). The protein was produced from HEK293T cells transfected with PHKA1 cDNA clone (Cat# [RC211553]) using MegaTran 2.0 (Cat# [TT210002]).