

Product datasheet for PH307611

Phosphorylase B (PHKB) (NM_001031835) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PHKB MS Standard C13 and N15-labeled recombinant protein (NP_001027005)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207611
Predicted MW:	123.8 kDa
Protein Sequence:	>RC207611 protein sequence Red=Cloning site Green=Tags(s)

MACSPDAVSPSSAFLRSGSVYEPLKSNLPRPDNETLWDKLDHYYRIVKSTLLLYQSPTTGLFPTKTCG
GDQKAKIQDSL YCAAGAWALALAYRRIDDDKGRTHELEHSAIKCMRGILYCYMRQADKVQQFKQDPRPTT
CLHSVFNVHTGDELLSYEEYGHQINAVSLYLLYL VEMISSGLQIIYNTDEVSF IQNLVFCVERVYRVPD
FGVWERGSKYNNGSTELHSSSVGLAKAALEAINGFNLFNGQCSWSVIFVDLDAHNRNRQTLC SLLPRES
RSHNTDAALLPCISYPAFALDDEVLF SQTLDKVVRKLGKYGFKRFLRDGYRTSLEDPNRCYYKPAEIKL
FDGIECEFP IFFLYMMIDGVFRGNPKQVQEYQDLLTPVLHHTTEGYVVPKYYYYPADFVEYEKNNPGSQ
KRFP SNCGRDGKFLWGQALYIIAKLLADELISPKDIDPVQRYVPLKDQRNVSMRF SNQGPLENDLVVHV
ALIAESQRLQVFLNTYGIQTQTPQQVEPIQIWPQQELVKAYLQLGINEKLG LSGRPDRPIGCLGTSKIYR
ILGKTVCYPIIFDL SDFYMSQDVFL IIDDIKNALQFIKQYWKMHGRPLFLVLIREDNIRGSRFNPILDM
LAALKKGIIGGVKVHVDR LQTLISGAVVEQLDFLRISDTEELPEFKSFEEL EPPKHSKVKRQSSTPSAPE
LGQQPDVNI SEWKDKP THEILQKLNDCSCLASQA ILLGILLKREGPNFITKEGTVSDHIERYR RAGSQK
LWSV VRRASLLSKVVD SLAPSI TNVLVQ GKQVTLGAFGHEEEV ISNPLSPRVIQNI IYYKCNTHDEREA
VIQQELVIHIGWII SNPEL FSGMLKIRIGWIIHAMEYELQIRGGDKPALDL YQLSPSEVKQLLLDILQP
QQNGRCWLNRRQIDGSLNRTPTGFYDRVWQILERTPNGIIVAGKHL PQQPTLSDMTMYEMNFSLLVEDTL
GNIDQPQYRQIVVELLMVVSIVLERNPELEFQDKVDLDRLVKEAFNEFQKQDQSRLKEIEKQDDMTSFYNT
PPLGKRGTCSYLTKAVMNL LLEGEV KPNND DPCLIS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

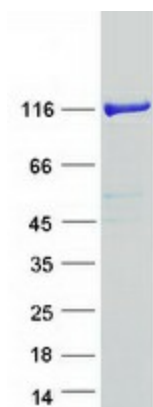
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3



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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_001027005
RefSeq Size:	5603
RefSeq ORF:	3258
Locus ID:	5257
UniProt ID:	Q93100
Cytogenetics:	16q12.1
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, encoded by two different genes. The beta subunit is the same in both the muscle and hepatic isoforms, encoded by this gene, which is a member of the phosphorylase b kinase regulatory subunit family. The gamma subunit also includes the skeletal muscle and hepatic isoforms, 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 9B, also known as phosphorylase kinase deficiency of liver and muscle. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene. Two pseudogenes have been found on chromosomes 14 and 20, respectively.[provided by RefSeq, Feb 2010]
Protein Families:	Druggable Genome
Protein Pathways:	Calcium signaling pathway, Insulin signaling pathway

Product images:



Coomassie blue staining of purified PHKB protein (Cat# [TP307611]). The protein was produced from HEK293T cells transfected with PHKB cDNA clone (Cat# [RC207611]) using MegaTran 2.0 (Cat# [TT210002]).