

Product datasheet for **TP307611L**

Phosphorylase B (PHKB) (NM_001031835) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human phosphorylase kinase, beta (PHKB), transcript variant 2, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207611 protein sequence Red =Cloning site Green =Tags(s)

MACSPDAVSPSSAFLRSGSVYEPLKSINLPRPDNETLWDKLDHYIRIVKSTLLLYQSPTTGLFPTKTCG
GDQKAKIQDSLYCAAGAWALALAYRRIDDDKGRTHELEHSAIKCMRGILCYMRQADKVQQFKQDPRPTT
CLHSVFNVTGDELLSYEEYGHLQINAVSLYLLYLVEMISSGLQIIYNTDEVFIQNLVFCVERVYRVPD
FGVWERGSKYNNGSTELHSSSVGLAKAALEANGFNLFNGQGSWSVIFVDLDAHNRNRQTLCSSLPRES
RSHNTDAALLPCISYPAFALDDEVLFSTLDKVVRLKLGKYGFKRFLRDGYRTSLEDPNRCYKPAEIKL
FDGIECEFFIFFLYMMIDGVFRGNPKQVQEYQDLLTPVLHHTTEGYVWPKYVVPADFEVEYKNNPGSQ
KRFPNSNCGRDGKFLWGQALYIIAKLLADELISPKDIDPVQRYVPLKDQRNVSMRFSNQGPLENDLVVHV
ALIAESQRLQVFLNTYGIQTQTPQQVEPIQIWPQQELVKAYLQLGINEKLGLSGRPDRPIGCLGTSKIYR
ILGKTVCYPIIFDLSDFYMSQDVFLIDDIKNALQFIKQYWKMHGRPLFLVLIREDNIRGSRFNPILDM
LAALKKGIIIGGVKVHVDRLQTLISGAVVEQLDFLRISDTEELPEFKSFEELEPPKHSKVKRQSSTPSAPE
LGQQPDVNISEWKDKPTHEILQKLNDSCCLASQAILLGILLKREGPNFITKEGTVSDHIERVYRRAGSQK
LWSVWRAASLLSKVVDLAPSLITNLVQGKQVTLGAFGHEEEVISNPLSPRVIQNIYYKCNTHDEREA
VIQQELVIHIGWIISNNPELFSGMLKIRIGWIIHAMEYELQIRGGDKPALDLYQLSPSEVKQLLLDILQP
QQNGRCWLNRRQIDGSLNRTPTGFYDRVWQILERTPNGIIVAGKHLPQQPTLSDMTMYEMNFSLLVEDT
L
GNIDQPQYRQIVVLLMVSVLERNPELEFQDKVDLDRLVKEAFNEFQKDQSRLEKEIKQDDMTSFYNT
PPLGKRGTCSYLTKAVMNLLLEGEVKPNNDPCLIS

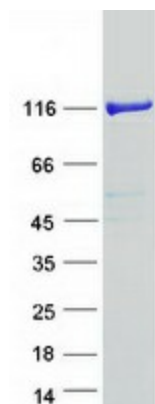
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	123.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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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_001027005
Locus ID:	5257
UniProt ID:	Q93100
RefSeq Size:	5603
Cytogenetics:	16q12.1
RefSeq ORF:	3258
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]).