

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

Cat. No. PHKB-3423H Lot. No. (See product label)

SPECIFICATION

Product Overview	PHKB MS Standard C13 and N15-labeled recombinant protein (NP_001027005) 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, 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.
Molecular Mass	123.8 kDa

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AA Sequence

MACSPDAVVSPSSAFLRSGSVYEPLKSINLPRPDNETLWDKLDHYYRIVKSTLLLYQ
 SPTTGLFPTKTCGGDQKAKIQDSLYCAAGAWALALAYRRIDDDKGRTHELEHSAIKC
 MRGILYCYMRQADKVQQFKQDPRPTTCLHSVFNVTGDELLSYEEYGHLQINAVSL
 YLLYLVEMISSGLQIIYNTDEVSIQNLVFCVERVYRVPDFGVWERGSKYNNNGSTELH
 SSSVGLAKAALEAINGFNLFGNQGCSWSVIFVDLDAHNRNRQTLCSLLPRESRSHNT
 DAALLPCISYPAFALDDEVLFSTLDKVVRLKLGKYGFKRFLRDGYRTSLEDPNRCY
 YKPAEIKLFDGIECEFFIPLYMMIDGVFRGNPKQVQEYQDLLTPVLHHTTEGYPVVP
 KYYYVPADFEVEYEKNNPGSQKRFPNSNCGRDGKFLWGQALYIIAKLLADELISPKDID
 PVQRYVPLKDQRNVSMRFSNQGLENDLVVHVALIAESQRLQVFLNTYGIQTQTPQ
 QVEPIQIWPQQELVKAYLQLGINEKLGLSGRPDRPIGCLGTSKIYRILGKTVVCYPIIFD
 LSDFYMSQDVFLIDDIKNALQFIKQYWKMHGRPLFLVLIREDNIRGSRFNPILDMLAA
 LKKGIIGGVKVHVDRLQTLISGAVVEQLDFLRISDTEELPEFKSFEELEPPKHSKVQRQ
 SSTPSAPELGQQPDVNISEWKDKPTHEILQKLNDSCSLASQAILLGILLKREGPNFITK
 EGTVSDHIERVYRRAGSQKLWSVVRRAASLLSKVVDSLAPSTNVLVQGKQVTLGAF
 GHEEEVISNPLSPRVIQNIYYKCNTHDEREAVIQQELVIHIGWIISNNPELFSGMLKIRI
 GWIIHAMEYELQIRGGDKPALDLYQLSPSEVKQLLLDILQPQQNGRCWLNRRQIDGS
 LNRTPTGFYDRVWQILERTPNGIIVAGKHLPQQPTLSDMTMYEMNFSLLVEDTLGNI
 DQPQYRQIVVELLMVVSIVLERNPELEFQDKVDLRLVKEAFNEFQKDQSRLKEIEK
 QDDMTSFYNTPLGKRGTCSYLTKAVMNLLEGEVKPNNDPCLISTRTRPLEQKLI
 SEEDLAANDILDYKDDDDKV

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.

Concentration

50 µg/mL as determined by BCA

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

GENE INFORMATION

Gene Name PHKB phosphorylase kinase regulatory subunit beta [Homo sapiens (human)]

Official Symbol PHKB

Synonyms PHKB; phosphorylase kinase, beta; phosphorylase b kinase regulatory subunit beta; phosphorylase kinase beta-subunit; phosphorylase kinase subunit beta; FLJ41698; DKFZp781E15103;

Gene ID 5257

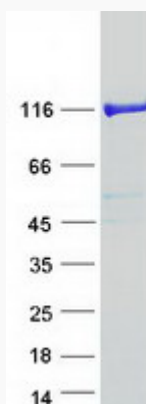
mRNA Refseq NM_001031835

Protein Refseq NP_001027005

MIM 172490

UniProt ID Q93100

SDS-PAGE



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