

Recombinant Human PHKG2

Cat. No. PHKG2-30330TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PHKG2 with N-terminal proprietary tag expressed in a Baculovirus infected Sf9 insect cell expression system; MWt 70kDa.
Species	Human
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, and encoded by one gene. The gamma subunit also includes the skeletal muscle and hepatic isoforms, and the hepatic isoform is encoded by this gene. 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 9C, also known as autosomal liver glycogenosis. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene.
Biological activity	The specific activity of PHKG2-30330TH was determined to be 70 nmol/min/mg.
Form	Liquid
Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, pH 7.5

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Full Length	Full L.
GENE INFORMATION	
Gene Name	PHKG2 phosphorylase kinase, gamma 2 (testis) [Homo sapiens]
Official Symbol	PHKG2
Synonyms	PHKG2; phosphorylase kinase, gamma 2 (testis); phosphorylase b kinase gamma catalytic chain, testis/liver isoform;
Gene ID	5261
mRNA Refseq	NM_000294
Protein Refseq	NP_000285
MIM	172471
Uniprot ID	P15735
Chromosome Location	16p11.2
Pathway	Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Glucose metabolism, organism-specific biosystem; Glycogen Metabolism, organism-specific biosystem; Glycogen breakdown (glycogenolysis), organism-specific biosystem;

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Function

ATP binding; calmodulin binding; enzyme binding; nucleotide binding; phosphorylase kinase activity;

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