

Recombinant Human PHKG1

Cat. No. PHKG1-30332TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PHKG1 expressed in Sf9 insect cells using an N terminal proprietary tag; predicted MWt: 70 kDa inclusive of tag;
Species	Human
Source	Insect Cells
ProteinLength	387 amino acids
Description	This gene is a member of the Ser/Thr protein kinase family and encodes a protein with one protein kinase domain and two calmodulin-binding domains. This protein is the catalytic member of a 16 subunit protein kinase complex which contains equimolar ratios of 4 subunit types. The complex is a crucial glycogenolytic regulatory enzyme. This gene has two pseudogenes at chromosome 7q11.21 and one at chromosome 11p11.12.
Molecular Weight	70.000kDa inclusive of tags
Biological activity	The specific activity of PHKG1 was determined to be 29 nmol/min/mg.
Form	Liquid
Purity	by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium

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	chloride, 10mM Glutathione, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MTRDEALPDSHSAQDFYENYEPKEILGRGVSSVVRRCIHKPTSQEYAVKVIDVTGGG SFSPEEVRELREATLKEVDILRKVSGHPNIIQLKDTYETNTFFFLVFDLMKRGELFDYL TEKVTLSEKETRKIMRALLEVICTLHKLNIVHRDLKPENILLDDNMNIKLTDGFGSCQLE PGERLREVCGTPSYLAPEIIECSMNEDHPGYGKEVDMWSTGVIMYTLLAGSPPFWH RKQMLMLRMIMSGNYQFGSPEWDDYSDTVKDLVSRFLVVQPQNRYTAAEALAHFP FQQYLVVEVRHFSPRGKFKVIALTVLASVRIYYQYRRVKPVTREIVIRDPYALRPLRRL IDAYAFRIYGHVWKKGQQQNRAALFENTPKAVLLSLAEDY

GENE INFORMATION

Gene Name	PHKG1 phosphorylase kinase, gamma 1 (muscle) [Homo sapiens]
Official Symbol	PHKG1
Synonyms	PHKG1; phosphorylase kinase, gamma 1 (muscle); PHKG; phosphorylase b kinase gamma catalytic chain, skeletal muscle isoform;
Gene ID	5260
mRNA Refseq	NM_006213
Protein Refseq	NP_006204
MIM	172470
Uniprot ID	Q16816

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Chromosome Location	7p11.2
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;
Function	ATP binding; calmodulin binding; enzyme binding; nucleotide binding; phosphorylase kinase activity;

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