

Active Recombinant Human PHKG1, GST-tagged

Cat. No. PHKG1-1074H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PHKG1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full Length
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. Multiple transcript variants encoding different isoforms have been found for this gene.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	29 nmol/min/mg
Molecular Mass	~70 kDa
Purity	>75%

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Applications	Kinase Assay; Western Blot
Stability	1 yr at -70°C from date of shipment.
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 ug/ul

GENE INFORMATION

Gene Name	PHKG1 phosphorylase kinase, gamma 1 (muscle) [Homo sapiens(human)]
Official Symbol	PHKG1
Synonyms	PHKG1; phosphorylase kinase, gamma 1 (muscle); phosphorylase kinase, gamma 1 (muscle); phosphorylase b kinase gamma catalytic chain, skeletal muscle isoform; phosphorylase kinase gamma; phosphorylase kinase subunit gamma-1; EC 2.7.11.19
Gene ID	5260
mRNA Refseq	NM_006213
Protein Refseq	NP_006204
MIM	172470
UniProt ID	Q16816
Chromosome Location	7p11.2

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Pathway	Calcium signaling pathway; Insulin signaling pathway; Metabolism of carbohydrates
Function	ATP binding; calmodulin binding; enzyme binding; phosphorylase kinase activity

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