

Active Recombinant Human PHKG1, GST-tagged

Cat. No. PHKG1-1448H **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	PHKG1 or phosphorylase kinase gamma 1 is a member of the Ser/Thr protein kinase family that encodes a protein with one protein kinase domain and two calmodulin-binding domains. Phosphorylase kinase is a crucial glycogenolytic regulatory enzyme. PHKG1 is the catalytic member of a 16-subunit protein kinase complex that contains equimolar ratios of 4 subunit types known as alpha, beta, gamma and delta. Skeletal muscle contains the highest amount of phosphorylase kinase enzymatic activity, although activity is also observed in liver, cardiac muscle, brain, and several other tissues.
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

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Purity	>75%
Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1µg/µl
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; phosphorylase kinase gamma; phosphorylase kinase subunit gamma-1;
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, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Glucose metabolism, organism-specific biosystem; Glycogen Metabolism, organism-specific biosystem; Glycogen breakdown (glycogenolysis), organism-specific biosystem; Insulin signaling pathway, organism-specific biosystem; Insulin signaling pathway, conserved biosystem;

Function

ATP binding; calmodulin binding; enzyme binding; nucleotide binding; phosphorylase kinase activity; protein serine/threonine kinase activity;

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