

## Recombinant Human Phosphorylase Kinase, Gamma 2 (testis), GST-tagged

**Cat. No.** PHKG2-1893H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant humanfull length PHKG2 with N-terminal GST tag was expressed in insect cells. Itsmolecular weight is 73900 Dalton.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | PHKG2 is a polymerof 16 subunits, four each of alpha, beta, gamma and delta. The alpha subunitincludes the skeletal muscle and hepatic isoforms, encoded by two differentgenes. 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 muscleand hepatic isoforms, and the hepatic isoform is encoded by this gene. Thedelta subunit is a calmodulin and can be encoded by three different genes.The gamma subunits contain the active site of the enzyme, whereas the alphaand beta subunits have regulatory functions controlled by phosphorylation. |
| <b>Form</b>             | Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT +50% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Weight</b> | 73.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>          | Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>OfficialSymbol</b>   | PHKG2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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**Full Length**

Full L.

## GENE INFORMATION

**Gene Name**

PHKG2 phosphorylase kinase, gamma 2(testis) [ Homo sapiens ]

**Synonyms**

PHKG2; phosphorylasekinase, gamma 2 (testis); GSD9C; Phosphorylase b kinase gamma catalyticchain, testis/liver isoform; PHK-gamma-T; EC 2.7.11.19; Phosphorylase kinasesubunit gamma 2; PSK-C3; Serine/threonine-protein kinase PHKG2; EC 2.7.11.1;EC 2.7.11.26

**Gene ID**

5261

**mRNA Refseq**

NM\_000294

**Protein Refseq**

NP\_000285

**MIM**

172471

**UniProt ID**

P15735

**Chromosome  
Location**

16p11.2

**Pathway**

Calcium signalingpathway; Glucose metabolism; Insulin signaling pathway; Metabolism ofcarbohydrates

**Function**

ATP binding;calmodulin binding; enzyme binding; nucleotide binding; proteinserine/threonine kinase activity; tau-protein kinase activity

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