

## Recombinant Human MAP4K1 Protein, GST-tagged

Cat. No. MAP4K1-79H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human HPK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Insect cells
<b>Description</b>	HPK1 or Hematopoietic progenitor kinase 1 is a hematopoietic cell-restricted member of the Ste20 serine/threonine kinase super family. HPK1 is also known as mitogen-activated protein kinase kinase kinase kinase 1 (MAP4K1). HPK1 is a tissue-specific upstream activator of the MEKK/JNK/SAPK signaling pathway. HPK1 diminishes T cell receptor (TCR) signaling activity and T cell proliferation by phosphorylating the adaptor protein SLP-76.
<b>Molecular Mass</b>	~121 kDa
<b>Purity</b>	> 70%
<b>Applications</b>	Kinase Assay, WB
<b>Stability</b>	One year at -70 centigrade from date of shipment.
<b>Storage</b>	Store at -70 centigrade. 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.

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**Concentration** 0.05 µg/µL

**Storage Buffer** 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, and 25% glycerol

## GENE INFORMATION

**Gene Name** MAP4K1 mitogen-activated protein kinase kinase kinase kinase 1 [ Homo sapiens (human) ]

**Official Symbol** MAP4K1

**Synonyms** HPK1; mitogen-activated protein kinase kinase kinase kinase 1; MAPK/ERK kinase kinase kinase 1; MEK kinase kinase 1; MEKKK 1; hematopoietic progenitor kinase 1; EC 2.7.11.1

**Gene ID** 11184

**mRNA Refseq** NM\_007181

**Protein Refseq** NP\_009112

**MIM** 601983

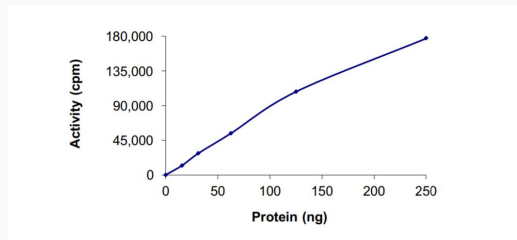
**UniProt ID** Q92918

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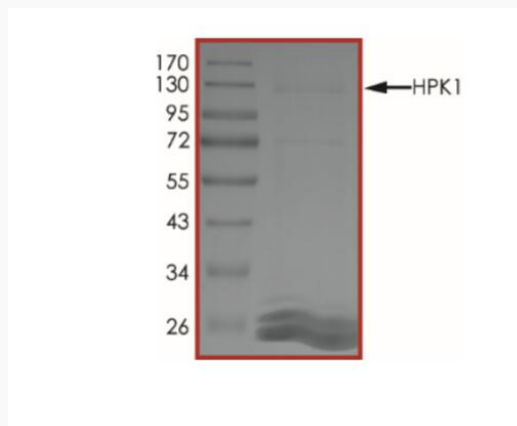
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### Specific Activity



The specific activity of HPK1 was determined to be 45.9 nmol/min/mg as per activity assay protocol.

### Purity



The purity of HPK1 was determined to be >70% by densitometry.

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