

Recombinant Human Polo-Like Kinase 1, GST-tagged

Cat. No. PLK2-1086H Lot. No. (See product label)

SPECIFICATION

Product Overview	Full length recombinant human PLK2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	PLK2 or Polo-like kinase 2 is a serum-inducible kinase that is a member of the Polo family of serine/threonine protein kinases which play an essential role in normal cell division. PLK2 phosphorylates the P4.1-associated protein (CPAP), a human homologue of SAS-4, in procentriole formation during the centrosome cycle. PLK2 may also play a role as a tumor suppressor since it interacts with TSC1 protein which in turn inhibits mTOR signaling, tumor growth and chemosensitivity under hypoxic conditions. Human lung tumor cells deficient in PLK2 grow larger than control tumors, and PLK2 interacts with endogenous TSC1 protein in these tumors.
Applications	Kinase Assay; Western Blot
Molecular Weight	106 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50mM Tris-HCL, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 0 25% glycerol.

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Specific Activity	13 nmol/min/mg
Purity	> 85 %
Concentration	0.1 ug/ul
Sequences	Full length
Storage	Store product at -70oC. 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.
Pathways	PLK2 and PLK4 events; Polo-like kinase signaling events in the cell cycle
Full Length	Full L.

GENE INFORMATION

Gene Name	PLK2 polo-like kinase 2 [Homo sapiens]
Official Symbol	PLK2
Synonyms	PLK2; polo-like kinase 2; SNK; serine/threonine-protein kinase PLK2; PLK-2; OTTHUMP00000122549; serum-inducible kinase; serine/threonine-protein kinase SNK
Gene ID	10769
mRNA Refseq	NM_006622
Protein Refseq	NP_006613

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MIM	607023
UniProt ID	Q9NYY3
Chromosome Location	5q12.1-q13.2
Function	ATP binding; nucleotide binding; protein serine/threonine kinase activity; signal transducer activity

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