

Recombinant Human PLK1 protein, MYC/DDK-tagged

Cat. No. PLK1-575H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PLK1 fused with MYC/DDK tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
Description	The Ser/Thr protein kinase encoded by this gene belongs to the CDC5/Polo subfamily. It is highly expressed during mitosis and elevated levels are found in many different types of cancer. Depletion of this protein in cancer cells dramatically inhibited cell proliferation and induced apoptosis; hence, it is a target for cancer therapy.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	68.1 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	PLK1 polo-like kinase 1 [Homo sapiens]
Official Symbol	PLK1

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Synonyms	PLK1; polo-like kinase 1; PLK, polo like kinase (Drosophila); serine/threonine-protein kinase PLK1; PLK-1; polo like kinase; polo (Drosophila)-like kinase; serine/threonine-protein kinase 13; cell cycle regulated protein kinase; PLK; STPK13;
Gene ID	5347
mRNA Refseq	NM_005030
Protein Refseq	NP_005021
MIM	602098
UniProt ID	P53350
Chromosome Location	16p12.2
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1, organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem;
Function	ATP binding; anaphase-promoting complex binding; microtubule binding; nucleotide binding; protein binding; protein kinase activity; protein kinase binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity; protein serine/threonine kinase activity;