

Recombinant Mouse Plk1 Protein, Myc/DDK-tagged

Cat. No. Plk1-4936M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length polo like kinase 1 (Plk1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
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 may play a role in DNA replication during S phase. This gene is expressed in all embryonic tissues, but restricted to thymus and ovaries in adult tissues. Homozygous knockout mice were embryonic lethal, suggesting that this gene is important for early embryonic development. This gene is thought to be a potential oncogene because it is overexpressed in a variety of tumors and tumor cell lines. Depletion of this protein in cancer cells has been shown to inhibit cell proliferation and suppress oncogenic transformation; hence, it is a target for cancer therapy.
Molecular Mass	68.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 µg/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Plk1 polo like kinase 1 [Mus musculus (house mouse)]
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Official Symbol	Plk1
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Synonyms	PLK1; polo-like kinase 1 (Drosophila); serine/threonine-protein kinase PLK1; PLK-1; serine/threonine-protein kinase 13; Plk; STPK13
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Gene ID	18817
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mRNA Refseq	NM_011121
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Protein Refseq	NP_035251
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UniProt ID	Q07832
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