

## Recombinant Human PLK4 293 Cell Lysate

**Cat. No.** PLK4-3102HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for polo-like kinase 4 (Drosophila) (PLK4) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
<b>Components</b>	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
<b>Applications</b>	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

**Gene Name** [PLK4 polo-like kinase 4 \[ Homo sapiens \]](#)

**Official Symbol** [PLK4](#)

**Synonyms** [PLK4](#); polo-like kinase 4; polo like kinase 4 (Drosophila) , serine/threonine kinase 18 , STK18; serine/threonine-protein kinase PLK4; Sak; PLK-4; Snk akin kinase; serine/threonine kinase 18; serine/threonine-protein kinase 18; serine/threonine protein kinase SAK; serine/threonine-protein kinase Sak; SAK; STK18;

**Gene ID** [10733](#)

**mRNA Refseq** [NM\\_001190799](#)

**Protein Refseq** [NP\\_001177728](#)

**MIM** [605031](#)

**UniProt ID** [O00444](#)

**Chromosome Location** [4q27-q28](#)

**Pathway** [Cell Cycle, organism-specific biosystem](#); [Cell Cycle, Mitotic, organism-specific biosystem](#); [Centrosome maturation, organism-specific biosystem](#); [G2/M Transition, organism-specific biosystem](#); [Loss of Nlp from mitotic centrosomes, organism-specific biosystem](#); [Loss of proteins required for interphase microtubule organization??from the centrosome, organism-specific biosystem](#); [Mitotic G2-G2/M phases, organism-](#)

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specific biosystem;

**Function**

ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity; protein tyrosine kinase activity;

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