

PLK4 recombinant protein

PLK4, Active

CATALOG # AAA73835	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

PLK4; Active; SAK; STK18; PLK4 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for PLK4 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. 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.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for PLK4 recombinant protein	Recombinant human PLK4 (1-836) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The PLK4 gene accession number is NM_014264. PLK4 or polo-like kinase 4 is a member of the polo family of serine/threonine protein kinases which localizes to centrioles, complex microtubule-based structures found in centrosomes, and regulates centriole duplication during the cell cycle. The overexpression of PLK4 triggered the simultaneous formation of multiple procentrioles around each preexisting centriole which resulting in centriole amplification and thus, Plk4-induced centriole biogenesis in human cells (1).The reduced Plk4 gene dosage increases the probability of mitotic errors and cancer development (2).
Product Categories/Family for PLK4 recombinant protein	Protein Kinases ; Cancer ; Cell Cycle ; Ser/Thr Kinases
References	1. Kleylein-Sohn, J. et.al: Plk4-induced centriole biogenesis in human cells. Dev. Cell 13: 190-202, 2007. 2. Ko, M. A. et.al: Plk4 haploinsufficiency causes mitotic infidelity and carcinogenesis. Nature Genet. 37: 883-888, 2005.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_014264
Molecular Weight	~140kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/plk4-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73835>