PLK2 recombinant protein

PLK2, Active

CATALOG #	HOST	APPLICATIONS
AAA73833	**Sf9 insect cells**	**Western Blot**

PRODUCT SYNONYMS

PLK2; Active; SNK; PLK2 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 PLK2 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 PLK2 recombinant protein	Full length recombinant human PLK2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_006622. 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 (1). PLK2 phosphorylates the P4.1-associated protein (CPAP), a human homologue of SAS-4, in procentriole formation during the centrosome cycle (2). 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.
Product Categories/Family for PLK2 recombinant protein	Protein Kinases; Cancer; Cell Cycle; Ser/Thr Kinases
References	1. Chang J, et al: PLK2 phosphorylation is critical for CPAP function in procentriole formation during the centrosome cycle. EMBO J, 2010 Jul 21. PMID 20531387. 2. Matthew EM, et al: The p53 target Plk2 interacts with TSC proteins impacting mTOR signaling, tumor growth and chemosensitivity under hypoxic conditions. Cell Cycle, 2009 Dec 15. PMID 20054236.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_006622
Molecular Weight	~106kDa

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/plk2-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73833