

## PLK3 recombinant protein

PLK3, Active

|                              |                                 |                                     |
|------------------------------|---------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA73834</b> | HOST<br><b>Sf9 insect cells</b> | APPLICATIONS<br><b>Western Blot</b> |
|------------------------------|---------------------------------|-------------------------------------|

### PRODUCT SYNONYMS

PLK3; Active; CNK; FNK; PRK; PLK3 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 PLK3 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 PLK3 recombinant protein | Recombinant human PLK3 (57-340) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The PLK3 gene accession number is NM_004073.<br>PLK3 or Polo-like kinase 3 is a cytokine-inducible kinase that is a member of the Polo family of serine/threonine protein kinases. PLK3 contains both a catalytic domain and a putative regulatory domain and plays an important role in the regulation of cell cycle progression and tumorigenesis (1). PLK3 is closely associated with centrosomes in several human cell lines and its localization is dependent on the integrity of microtubules. Hence, PLK3 is also involved in regulating microtubule dynamics and centrosomal function (2). |
| Product Categories/Family for PLK3 recombinant protein   | <a href="#">Protein Kinases</a> ; <a href="#">Cancer</a> ; <a href="#">Cell Cycle</a> ; <a href="#">Ser/Thr Kinases</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| References                                               | 1. Li, B.et.al: Prk, a cytokine-inducible human protein serine/threonine kinase whose expression appears to be down-regulated in lung carcinomas. J. Biol. Chem. 271: 19402-19408, 1996.<br>2. Wang, Q. et.al: Cell cycle arrest and apoptosis induced by human polo-like kinase 3 is mediated through perturbation of microtubule integrity. Molec. Cell. Biol. 22: 3450-3459, 2002.                                                                                                                                                                                                                                                                                                                            |

NCBI AND UNIPROT INFORMATION

|                           |           |
|---------------------------|-----------|
| NCBI GenBank Nucleotide # | NM_004073 |
| Molecular Weight          | ~60kDa    |

**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/plk3-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73834>