

PKN2/PRK2 recombinant protein

PKN2/PRK2, Active

CATALOG # AAA73871	HOST Sf9 insect cells	APPLICATIONS Western Blot
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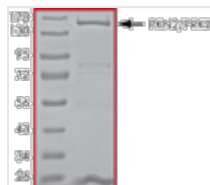
PRODUCT SYNONYMS

PKN2/PRK2; Active; PRKCL2; PKN2; PRK2; PAK2; Pak-2; PRO2042; MGC71074; MGC150606; PKN2/PRK2 recombinant protein

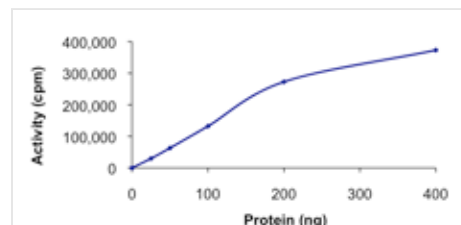
PRODUCT SPECIFICATIONS

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 PKN2/PRK2 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 PKN2/PRK2 recombinant protein	Recombinant full-length human PKN2/PRK2 expressed by baculovirus in Sf9 insect cells using a terminal GST tag. The gene accession number is NM_006256. PKN2 (also known as PRK2) is a Rho effector and a member of the protein kinase C superfamily of serine/threonine kinases. PKN2 is an essential regulator of both entry into mitosis and exit from cytokinesis in HeLa S3 cells (1). PKN2 is required for abscission of the midbody at the end of the cell division cycle and for phosphorylation and activation of Cdc25B, the phosphatase required for activation of mitotic cyclin/Cdk1 complexes at the G2/M transition. C-terminus of PKN2 could be a potential drug target for effector-specific pharmacological intervention of Rho-mediated biological processes (2).
Product Categories/Family for PKN2/PRK2 recombinant protein	Protein Kinases ; Apoptosis/Autophagy ; Cardiovascular Disease ; ERK/MAPK Pathway ; Neurobiology ; NfκB Pathway ; PKA/PKC Pathway ; Ser/Thr Kinases

References

- 1.Schmidt A, et al: Rho GTPases regulate PRK2/PKN2 to control entry into mitosis and exit from cytokinesis. EMBO J. 2007 Mar 21;26(6):1624-36.
- 2.Lim W G, et al: The C-terminus of PRK2/PKNgamma is required for optimal activation by RhoA in a GTP-dependent manner. Arch Biochem Biophys. 2008 Nov 15;479(2):170-8.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_006256](#)

Molecular Weight

~145kDa

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/pkn2/prk2-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73871>