

NEK4 recombinant protein

NEK4, Active

CATALOG # AAA73744	HOST Sf9 insect cells	APPLICATIONS Western Blot
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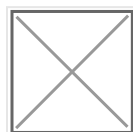
PRODUCT SYNONYMS

NEK4; Active; NRK2; STK2; NEK4 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 NEK4 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 NEK4 recombinant protein	Recombinant full-length human NEK4 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is BC063044. NEK4 or Never In Mitosis A-related kinase 4 is a serine/threonine protein kinase. Northern blot show NEK4 is expressed as 2 mRNAs of 4.0 kb and 6.8 kb in heart and several other tissues. NEK4 gene encodes an 841-amino acid polypeptide and the levels of NEK4 mRNA remain invariant throughout the cell cycle (1). Nek4 has been identified in a genetic screen as a mediator of response to Taxol (2). After Taxol treatment, NEK4 promoted microtubule outgrowth, whereas NEK4 deficiency impaired G(2)-M arrest and decreased formation of mitotic-like asters. In contrast, NEK4 deficiency sensitized cells to vincristine, which destabilizes microtubules.
Product Categories/Family for NEK4 recombinant protein	Protein Kinases; Cancer; Cell Cycle; Ser/Thr Kinases

References	1. Levedakou, E. N., et.al: Two novel human serine/threonine kinases with homologies to the cell cycle regulating Xenopus MO15, and NIMA kinases: cloning and characterization of their expression pattern. Oncogene 9: 1977-1988, 1994. 2. Doles, J. et al: Nek4 status differentially alters sensitivity to distinct microtubule poisons. Cancer Res. 2010 Feb 1;70(3):1033-41.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	38648683
NCBI GeneID	6787
Molecular Weight	160.0 kDa
NCBI Official Full Name	Homo sapiens NIMA (never in mitosis gene a)-related kinase 4, mRNA
NCBI Official Synonym Full Names	NIMA related kinase 4
NCBI Official Symbol	NEK4
NCBI Official Synonym Symbols	NRK2; STK2; pp12301
NCBI Protein Information	serine/threonine-protein kinase Nek4

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/nek4-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73744>