Recombinant Human NEK6 Kinase

Catalog No.: RP03441LQ

Sequence Information

Species	Gene ID
Human	10783
Swiss Prot	**Tags**
Q9HC98	N-GST

Synonyms

NEK6; Protein kinase SID6-1512; Never in mitosis A-related kinase 6; NimA-related protein kinase 6; Serine/threonine-protein kinase Nek6

Product Information

Source	Purification
Baculovirus-Insect Cells	≥ 85% as determined by SDS-PAGE;≥ 85% as determined by HPLC.
Calculated MW	**Observed MW**
62.2 kDa	50-60 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Supplied as a 0.22 μm filtered solution in 50 mM Tris-HCl, 500 mM NaCl, 5% glycerol, 1 mM DTT, 0.1 M Trehalose. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution

Please use running water to thaw it quickly.

Background

Serine/threonine-protein kinase Nek6 is an enzyme that in humans is encoded by the NEK6 gene. NEK6 plays an important role in mitotic cell cycle progression. Required for chromosome segregation at metaphase-anaphase transition, robust mitotic spindle formation and cytokinesis. Phosphorylates ATF4, CIR1, PTN, RAD26L, RBBP6, RPS7, RPS6KB1, TRIP4, STAT3 and histones H1 and H3. Phosphorylates KIF11 to promote mitotic spindle formation. Involved in G2/M phase cell cycle arrest induced by DNA damage. Inhibition of activity results in apoptosis. May contribute to tumorigenesis by suppressing p53/TP53-induced cancer cell senescence.

Basic Information

Description

Recombinant Human NEK6 Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ala2-Thr313) of Human NEK6 (Accession #Q9HC98) fused with a N-GST tag.

Activity

The activity of NEK6 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -70℃

Operational Notes

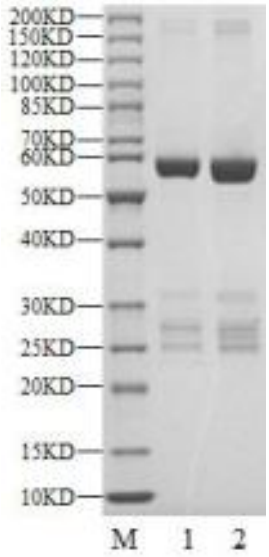
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

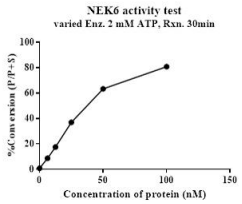
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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Recombinant Human NEK6 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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