

Recombinant Mouse Nek6 Protein, Myc/DDK-tagged

Cat. No. Nek6-4368M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length NIMA (never in mitosis gene a)-related expressed kinase 6 (Nek6), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Protein kinase which 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, TRIP4, RPS6KB1 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. Phosphorylates STAT3.
Molecular Mass	35.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Nek6 NIMA (never in mitosis gene a)-related expressed kinase 6 [Mus musculus (house mouse)]

Official Symbol Nek6

Synonyms NEK6; NIMA (never in mitosis gene a)-related expressed kinase 6; serine/threonine-protein kinase Nek6; nimA-related protein kinase 6; NIMA-related expressed kinase 6; never in mitosis A-related kinase 6; 1300007C09Rik

Gene ID 59126

mRNA Refseq NM_001159631

Protein Refseq NP_001153103

UniProt ID Q9ES70

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