

Recombinant Human NEK2, GST-tagged, Active

Cat. No. NEK2-368H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human NEK2 was expressed by <i>baculovirus</i> in <i>Sf9</i> insect cell/s using an N-terminal GST tag. MW=66 kDa.
Species	Human
Source	Sf9 Cells
Description	NEK 2 is closely related in its catalytic domain to the serine/threonine protein kinase NIMA of <i>Aspergillus nidulans</i> that is required for entry into mitosis and may function in parallel to the universal mitotic inducer p34cdc2. Like NIMA, the NEK2 protein is almost undetectable during G1 but accumulated progressively throughout S, reaching maximal levels in late G2. NEK2 is shown to be expressed most abundantly in the testis of the adult tissues examined being localized to the nucleus.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70oC. 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.

GENE INFORMATION

Gene Name	NEK2 NIMA (never in mitosis gene a)-related kinase 2 [<i>Homo sapiens</i>]
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 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

Synonyms	NEK2; NIMA (never in mitosis gene a)-related kinase 2; NLK1; NEK2A; HsPK21; NIMA-related kinase 2; EC 2.7.11.1
Gene ID	4751
mRNA Refseq	NM_002497
Protein Refseq	NP_002488
MIM	604043
UniProt ID	P51955
Chromosome Location	1q32.2-q41
Pathway	Cell Cycle, Mitotic
Function	ATP binding; magnesium ion binding; transferase activity; nucleotide binding; protein phosphatase binding; protein serine/threonine kinase activity

PDB rendering based
on 2jav.

