

Recombinant Human NEK3, GST-tagged, Active

Cat. No. NEK3-369H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human NEK3 was expressed by <i>baculovirus</i> in <i>Sf9</i> insect cell/s using an N-terminal GST tag. MW=86 kDa.
Species	Human
Source	Sf9 Cells
Description	NEK3 is a member of the NEK family of protein kinases that share high amino acid homology with NIMA (never in mitosis gene a). NEK3 mRNA is detected in all the proliferating cell lines with the amount not changing during the cell cycle. During Prolactin receptor signaling, VAV2 is phosphorylated and activated by NEK3. Overexpression of NEK3 in Chinese hamster ovary cells increases cytoskeletal reorganization in response to Prolactin while downregulation of NEK3 expression by siRNA block these effects. Prolactin also stimulates interaction between NEK3 and paxillin leading to increased paxillin phosphorylation, Analysis of breast tissue microarrays show a significant up-regulation of NEK3 expression in malignant versus normal specimens.
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.

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GENE INFORMATION

Gene Name	NEK3 NIMA (never in mitosis gene a)-related kinase 3 [Homo sapiens]
Synonyms	NEK3; NIMA (never in mitosis gene a)-related kinase 3; HSPK36; MGC29949; NIMA-related kinase 3; glycogen synthase A kinase; hydroxyalkyl-protein kinase; phosphorylase B kinase kinase; serine/threonine-protein kinase NEK3; EC 2.7.11.1
Gene ID	4752
mRNA Refseq	NM_001146099
Protein Refseq	NP_001139571
MIM	604044
UniProt ID	P51956
Chromosome Location	13q14.13
Function	ATP binding; magnesium ion binding; nucleotide binding; protein phosphatase binding; protein serine/threonine kinase activity; transferase activity

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