

## Recombinant Human NEK2

Cat. No. NEK2-29279TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length NEK2 protein (Human), was expressed by baculovirus in Sf9 insect cells using a N-terminal tag, MW 76kDa.
<b>Species</b>	Human
<b>Description</b>	This gene encodes a serine/threonine-protein kinase that is involved in mitotic regulation. This protein is localized to the centrosome, and undetectable during G1 phase, but accumulates progressively throughout the S phase, reaching maximal levels in late G2 phase. Alternatively spliced transcript variants encoding different isoforms with distinct C-termini have been noted for this gene.
<b>Tissue specificity</b>	Isoform 1 and isoform 2 are expressed in peripheral blood T-cells and a wide variety of transformed cell types.
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequence</b>	Belongs to the protein kinase superfamily. NEK Ser/Thr protein kinase family. NIMA

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<b>Similarities</b>	subfamily.Contains 1 protein kinase domain.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	NEK2 NIMA (never in mitosis gene a)-related kinase 2 [ Homo sapiens ]
<b>Official Symbol</b>	NEK2
<b>Synonyms</b>	NEK2; NIMA (never in mitosis gene a)-related kinase 2; serine/threonine-protein kinase Nek2; HsPK 21; NEK2A; NLK1;
<b>Gene ID</b>	4751
<b>mRNA Refseq</b>	NM_001204182
<b>Protein Refseq</b>	NP_001191111
<b>MIM</b>	604043
<b>Uniprot ID</b>	P51955
<b>Chromosome Location</b>	1q32-q42
<b>Pathway</b>	Cell Cycle, Mitotic, organism-specific biosystem; Centrosome maturation, organism-specific biosystem; FOXM1 transcription factor network, organism-specific biosystem; G2/M Transition, organism-specific biosystem; Loss of Nlp from mitotic centrosomes, organism-specific biosystem;
<b>Function</b>	ATP binding; metal ion binding; nucleotide binding; protein binding; protein kinase

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