

Product: NEK2, active
Catalog #: 02-2024
Amount: 5 µg

DESCRIPTION: NEK 2 is closely related in its catalytic domain to the serine/threonine protein kinase NIMA of *Aspergillus nidulans* 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 (1). NEK2 is shown to be expressed most abundantly in the testis of the adult tissues examined being localized to the nucleus (2)
The gene accession number is [NM 002497](#)
Gene Aliases: NLK1; HsPK21

SOURCE: Recombinant full-length human NEK2 was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag

MOLECULAR WEIGHT: 76 kDa

PURITY: > 90% (by densitometry)

FORM: Purified, in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol

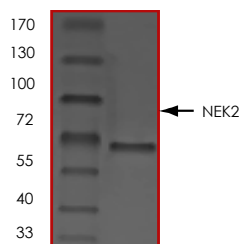
CONCENTRATION: 0.1 mg/ml

SPECIFIC ACTIVITY: 269 nmol/mim/mg

STORAGE: -70°C (aliquot). AVOID repeated Freeze/thaw cycles

REFERENCE:

1. Schultz, SJ. et al: A. Cell cycle-dependent expression of Nek2, a novel human protein kinase related to the NIMA mitotic regulator of *Aspergillus nidulans*. *Cell Growth Differ.* 1994 Jun;5(6):625-35
2. Fry, AM. et al: Substrate specificity and cell cycle regulation of the Nek2 protein kinase, a potential human homolog of the mitotic regulator NIMA of *Aspergillus nidulans*. *J Biol Chem.* 1995 May 26; 270(21):12899-905



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