

**Product:** NEK6, active  
**Catalog #:** 02-2025  
**Amount:** 5 µg

**DESCRIPTION:** NEK6 is a serine/threonine kinase that is a member of the Nek family of protein kinases that share an amino-terminal catalytic domain related to NIMA family (1). Nek6 is a nuclear and cytoplasmic kinase that is required for mitotic progression of human cells. Nek6 is phosphorylated and activated during M phase of the cell cycle (2). Inhibition of Nek6 function by either overexpression of an inactive Nek6 mutant or elimination of endogenous Nek6 by siRNA arrests cells in M phase and triggers apoptosis  
The gene accession number is [NM 014397](#)  
Gene Aliases: SID6-1512

**SOURCE:** Recombinant full-length human NEK6 was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag

**MOLECULAR WEIGHT:** 63 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

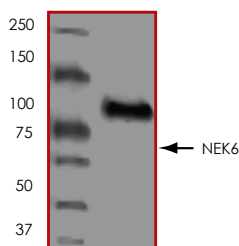
**CONCENTRATION:** 0.1 mg/ml

**SPECIFIC ACTIVITY:** 153 nmol/mim/mg

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

**REFERENCE:**

1. Kandli, M. et al: *Isolation and characterization of two evolutionarily conserved murine kinases (Nek6 and nek7) related to the fungal mitotic regulator, NIMA*. Genomics. 2000 Sep 1;68(2):187-96
2. Yin, MJ. Et al: *The serine/threonine kinase Nek6 is required for cell cycle progression through mitosis*. J Biol Chem. 2003 Dec 26;278(52):52454-60



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