NEK6
Recombinant Human Never in Mitosis Gene A-related Kinase Active GST-His

Catalog No.	CSI11185	**Quantity:**	50 µg

Alternate Names: SID6-1512, NIMA-related kinase 6, putative serine-threonine protein kinase

Description: Human NEK6 amino acids M8-T313 (as in GenBank entry NM_014397), N-terminally fused to GST-HIS_6-Thrombin cleavage site.

Concentration: 0.129 µg/µl

Gene ID: 10783

Protein Accession No: NM_014397

Source: Baculovirus infected Sf9 cells

Molecular Weight: Theoretical $MW_{Fusion\ Protein}$: 68,041 Da

Formulation: 50 mM Tris-HCl, pH 8.0 + 100 mM NaCl + 5 mM DTT + 15 mM reduced glutathione, 20% glycerol

Purification: One-step affinity purification using GSH-agarose

Product Identity: NEK6 was confirmed as human NEK6 by mass spectroscopy
LC-ESI-MS/MS

Specific Activity: 8 pmol/µg×min

Method for determination of Km value and specific activity:
• Assay conditions:
60 mM HEPES-NaOH, pH 7.5
3 mM MgCl2
3 mM MnCl2
3 µM Na-orthovanadate
1.2 mM DTT
2.5 µg / 50 µl $PEG_{20.000}$
ATP (variable)

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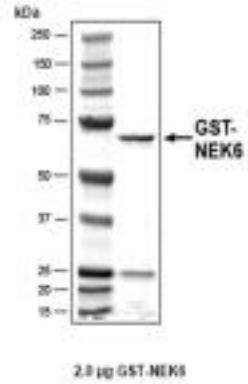
Substrate: Rb-CTF, 2.5 µg / 50 µl
Recombinant NEK6: 100 ng / 50 µl
• Filter binding assay
MAFC membrane (Millipore)

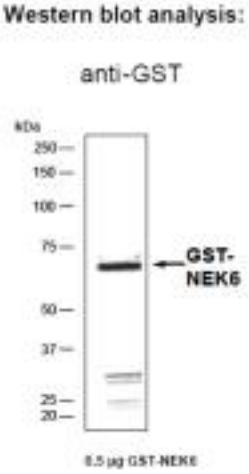
Amino Acid Sequence: MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIPQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD PMGHHHHHHG RRRASVAAGI LVPRGSPGLD GIYARGIQAS MGARGRQCDG YLQNSPL**MPH GGSSNNLCHT LGPVHPPDPQ RHPNTLSFRC SLADFQIEKK IGRGQFSEVY KATCLLDRKT VALKKVQIFE MMDAKARQDC VKEIGLLKQL NHPNIIKYLD SFIEDNELNI VLELADAGDL SQMIKYFKKQ KRLIPERTVW KYFVQLCSAV EHMHSRRVMH RDIKPANVFI TATGVVKLGD LGLGRFFSSE TTAAHSLVGT PYYMSPERIH ENGYNFKSDI WSLGCLLYEM AALQSPFYGD KMNLFSLCQK IEQCDYPPLP GEHYSEKLRE LVSMCICPDP HQRPDIGYVH QVAKQMHIWM SST**KGEFQHT GGRY

Storage & Stability: Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**

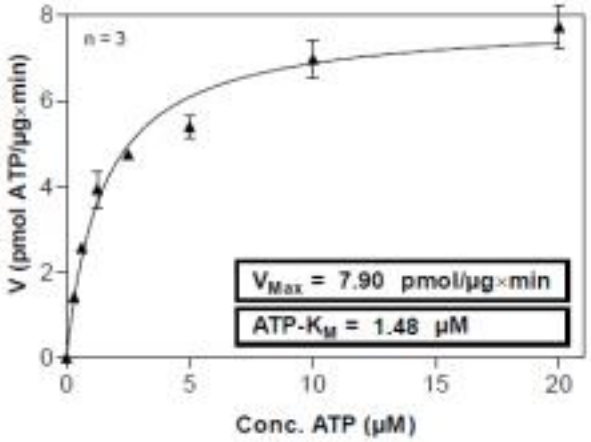
Coomassie stain:



Western blot analysis:



Determination of Km value for ATP:



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