

# Recombinant Human NCK Adaptor Protein 1, His-tagged

Cat. No. NCK1-2567H Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Recombinant human NCK1, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques. MW =45 kDa (397aa).

**Species** Human

**Source** E.coli

**Description** NCK adaptor protein 1, also known as NCK, belongs to the adaptor family of proteins. The protein encoded by this gene is one of the signaling and transforming proteins containing Src homology 2 and 3 (SH2 and SH3) domains. It is located in the cytoplasm and is an adaptor protein involved in transducing signals from receptor tyrosine kinases to downstream signal recipients such as RAS. Overexpression of Nck resulted in transformation of NIH 3T3 and 3Y1 rat fibroblast.

**Sequences Of Amino Acids**

MGSSHHHHHH SSSLVPRGSH MAEEVVVAK FDYVAQQEQE LDIKKNERLW  
 LLDDSKSWWR VRNSMNKTGF VPSNYVERKN SARKASIVKN LKDTLGIGKV  
 KRKPSVPDSA SPADDSFVDP GERLYDLNMP AYVKFNMAE REDELSLIKG  
 TKVIVMEKCS DGWWRGSYNG QVGWFPSNYV TEEGDSPLGD HVGSLSEKLA  
 AVVNNLNTGQ VLHVQALYP FSSSNDEELN FEKGDVMDVIEKPENDEPWW  
 KCRKINGMVG LVPKNYVTVM QNNPLTSGLE PSPPPQCDYIR PSLTGKFAGN  
 PWYYGKVTRH QAEMALNERG HEGDFLIRDS ESSPNDFSVS LKAQGKKNHF  
 KVQLKETVYC IGQRKFSTME ELVEHYKKAP IFTSEQGEKL YLVKHLS

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<b>Purity</b>	> 90% by SDS – PAGE.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 1mM EDTA, 50mM NaCl.
<b>Concentration</b>	1mg/ml (determined by Bradford assay).
<b>Storage</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">NCK1 NCK adaptor protein 1 [ Homo sapiens ]</a>
<b>Synonyms</b>	NCK1; NCK adaptor protein 1; NCK; MGC12668; NCKalpha; NCK tyrosine kinase; melanoma NCK protein; SH2/SH3 adaptor protein NCK-alpha; non-catalytic region of tyrosine kinase; Nck-1; Cytoplasmic protein NCK1
<b>Gene ID</b>	<a href="#">4690</a>
<b>mRNA Refseq</b>	<a href="#">NM_006153</a>
<b>Protein Refseq</b>	<a href="#">NP_006144</a>
<b>MIM</b>	<a href="#">600508</a>
<b>UniProt ID</b>	<a href="#">P16333</a>
<b>Chromosome Location</b>	3q21

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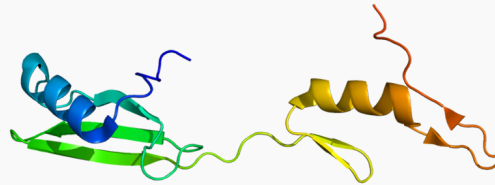
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**Pathway** Axon guidance; ErbB signaling pathway; Pathogenic Escherichia coli infection; T cell receptor signaling pathway

**Function** cytoskeletal adaptor activity; protein domain specific binding; receptor binding; receptor signaling complex scaffold activity

**PDB rendering based on 2ci8.**



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