

# Recombinant human NCK1 protein

Catalog Number: ATGP0587

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-377aa

**UniProt No.**

P16333

**NCBI Accession No.**

NP\_006144

**Alternative Names**

NCK adaptor protein 1, NCK, NCKalpha, NCK adaptor protein 1 GRB4, melanoma NCK protein, MGC12668, NCK adaptor protein 2, NCK tyrosine kinase, NCKbeta, non catalytic region of tyrosine kinase, noncatalytic region of tyrosine kinase, beta, SH2/SH3 adaptor protein NCK alpha, SH2/SH3 adaptor protein NCK beta.

## PRODUCT SPECIFICATION

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**Molecular Weight**

45 kDa (397aa) confirmed by MALDI-TOF

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 1mM EDTA, 50mM NaCl

**Purity**

&gt; 90% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**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

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of NIH 3T3 and 3Y1 rat fibroblast. Recombinant human NCK1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

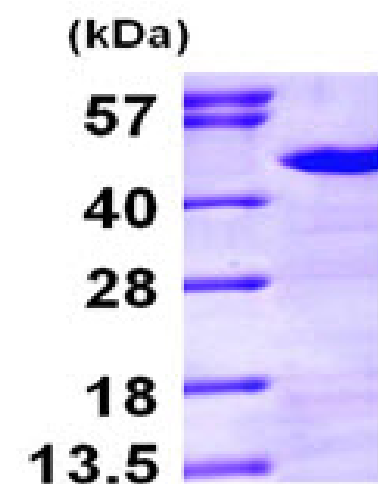
MGSSHHHHHH SSGLVPRGSH MAEEVVVVAK FDYVAQQEQE LDIKKNERLW LLDDSKSWWR VRNSMKNKTGF  
VPSNYVERKN SARKASIVKN LKDTLGIGKV KRKPSVPDSA SPADDSFVDP GERLYDLNMP AYVKFNYMAE REDELSLIK  
TKVIVMEKCS DGWWRGSYNG QVGWFPSNYV TEEGDSPLGD HVGSLSEKLA AVVNNLNTGQ VLHVVQALYP  
FSSSNDEELN FEKGDVMDVIEKPENDEPEWW KCRKINGMVG LVPKNYVTVM QNNPLTSGLE PSPPQCDYIR PSLTGKFAGN  
PWYYGKVTRH QAEMALNERG HEGDFLIRDS ESSPNDFSVS LKAQGKNKHF KVQLKETVYC IGQRKFSTME ELVEHYKKAP  
IFTSEQGEKL YLVKHLS

## General References

Chen., et al. (1998) J bio Chem. 273(39):25171-8.  
Li W., et al. (1992) Mol Cell Biol. 12(12):5824-33.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)