

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 <i>E.coli</i> 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 SSGLVPRGSH MAEEVVVAK FDYVAQQEQE LDIKKNERLW LLDDSKSWWR VRNSMNKTGF VPSNYVERKN SARKASIVKN LKDTLGIGKV KRKPSVPDSA SPADDSFVDP GERLYDLNMP AYVKFNMAE REDELSLIKG TKVIVMEKCS DGWWRGSYNG QVGWFPSNYV TEEGDSPLGD HVGSLSEKLA AVVNNLNTGQ VLHVQALYP FSSSNDEELN FEKGDVMDVIEKPENDEWW KCRKINGMVG LVPKNYVTM QNNPLTSGLE PSPPQCDYIR PSLTGKFAGN PWYYGKVTRH QAEMALNERG HEGDFLIRDS ESSPNDFSVS LKAQGKKNHF KVQLKETVYC IGQRKFSTME ELVEHYKKAP IFTSEQGEKL YLVKHL

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Purity	> 90% by SDS – PAGE.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 1mM EDTA, 50mM NaCl.
Concentration	1mg/ml (determined by Bradford assay).
Storage	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

Gene Name	NCK1 NCK adaptor protein 1 [Homo sapiens]
Synonyms	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
Gene ID	4690
mRNA Refseq	NM_006153
Protein Refseq	NP_006144
MIM	600508
UniProt ID	P16333
Chromosome Location	3q21

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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.	