

Recombinant Human NCK2, His-tagged

Cat. No. NCK2-15879H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human NCK2 protein, fused to His tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-380aa
Description	NCK2 is a member of the NCK family of adaptor proteins. The protein contains three SH3 domains and one SH2 domain. The protein has no known catalytic function but has been shown to bind and recruit various proteins involved in the regulation of receptor protein tyrosine kinases. It is through these regulatory activities that this protein is believed to be involved in cytoskeletal reorganization. Alternate transcriptiona splice variants, encoding different isoforms, have been characterized.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT
Molecular Mass	45.3 kDa (403aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SGLVPRGSH GSMTEEVIV IAKWDYTAQQ DQELDIKKNE RLWLLDDSKT WWRVRNAANR TGYVPSNYVE RKNSLKKGSL VKNLKDTLGL GKTRRKT SAR DASPTPSTDA EYPANGSGAD RIYDLNIPAF VKFAYVAERE DELSLVKGSR VTMKCSGD WWRGSYNGQI GWFPSNYVLE EVDEAAAESP

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SFLSLRKGAS LSNGQGSRLV HVVQTLYPFS SVTEEELNFE KGETMEVIEK
 PENDPEWWKC KNARGQVGLV PKNYVVVLSLSD GPALHPAHAP QISYTGPSST
 GRFAGREWYY GNVTRHQAEC ALNERGVEGD FLIRDSESSP SDFSVSLKAS
 GKNKHFKVQL VDNVYCIGQR RFHTMDELVE HYKKAPIFTS EHGEKLYLVR ALQ

Purity >85% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [NCK2 NCK adaptor protein 2 \[Homo sapiens \]](#)

Official Symbol NCK2

Synonyms NCK2; NCK adaptor protein 2; cytoplasmic protein NCK2; NCKbeta; SH2/SH3 adaptor protein NCK-beta; growth factor receptor-bound protein 4; noncatalytic region of tyrosine kinase, beta; GRB4;

Gene ID [8440](#)

mRNA Refseq [NM_003581](#)

Protein Refseq [NP_003572](#)

MIM [604930](#)

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UniProt ID	O43639
Chromosome Location	2q12
Pathway	Activation of Rac, organism-specific biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Downstream signal transduction, organism-specific biosystem;
Function	cytoskeletal adaptor activity; protein binding; receptor signaling complex scaffold activity;

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