

Rabbit NCK1 Polyclonal Antibody | anti-NCK1 antibody

NCK1 Antibody

CATALOG # AAA325962	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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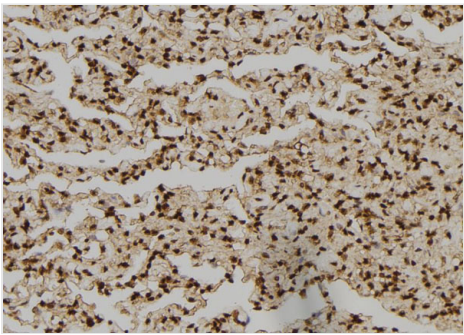
PRODUCT SYNONYMS

NCK1; Polyclonal Antibody; NCK1 Antibody; Cytoplasmic protein NCK1; Melanoma Nck protein; MGC12668; NCK 1; NCK adaptor protein 1; NCK alpha; NCK; NCK tyrosine kinase; Nck-1; NCK1_HUMAN; NCKalpha; Non catalytic region of tyrosine kinase; SH2/SH3 adaptor protein NCK alpha; SH2/SH3 adaptor protein NCK-alpha; anti-NCK1 antibody

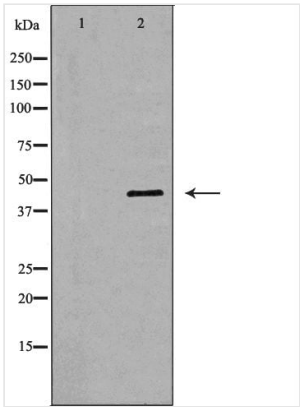
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	NCK1 antibody detects endogenous levels of total NCK1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	313
Applicable Applications for anti-NCK1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human NCK1
Subcellular Location	Cytoplasm. Endoplasmic reticulum. Nucleus. Mostly cytoplasmic, but shuttles between the cytoplasm and the nucleus. Import into the nucleus requires the interaction with SOCS7. Predominantly nuclear following genotoxic stresses, such as UV irradiation, hydroxyurea or mitomycin C treatments.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (92%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA325962 at 1/100 staining Human lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of brain lysate using NCK1 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-NCK1 antibody

Description: NCK1 (also known as NCK or NCKalpha) is a broadly expressed oncogenic adapter protein consisting of three SH3 domains and one SH2 domain (1-3). NCK1 becomes phosphorylated upon activation of variety of cell surface receptors and is involved in actin cytoskeletal organization induced by many stimuli (4-6). NCK2 (also known as NCKbeta), a homolog of NCK1, has an overlapping expression pattern and redundant functions with NCK1 (7).

Function: Adapter protein which associates with tyrosine-phosphorylated growth factor receptors, such as KDR and PDGFRB, or their cellular substrates. Maintains low levels of EIF2S1 phosphorylation by promoting its dephosphorylation by PP1. Plays a role in the DNA damage response, not in the detection of the damage by ATM/ATR, but for efficient activation of downstream effectors, such as that of CHEK2. Plays a role in ELK1-dependent transcriptional activation in response to activated Ras signaling. Modulates the activation of EIF2AK2/PKR by dsRNA. May play a role in cell adhesion and migration through interaction with ephrin receptors.

Subunit Structure: Interacts (via SH2 domain and SH3 domain 2) with EGFR. Interacts with PAK1 and SOS1. Interacts (via SH3 domains) with PKN2. Associates with BLNK, PLCG1, VAV1 and NCK1 in a B-cell antigen receptor-dependent fashion. Interacts with SOCS7. This interaction is required for nuclear import. Part of a complex containing PPP1R15B, PP1 and NCK1. Interacts with RALGPS1. Interacts with CAV2 (tyrosine phosphorylated form). Interacts with ADAM15. Interacts with FASLG. Directly interacts with RASA1. Interacts with isoform 4 of MINK1. Interacts with FLT1 (tyrosine phosphorylated). Interacts with KDR (tyrosine phosphorylated). Interacts (via SH2 domain) with EPHB1; activates the JUN cascade to regulate cell adhesion. Interacts with EPHA2. Interacts (via SH2 domain) with PDGFRB (tyrosine phosphorylated). Interacts with the inactive form of EIF2AK2/PKR.

Post-translational Modifications: Phosphorylated on Ser and Tyr residues. Phosphorylated in response to activation of EGFR and FcERI. Phosphorylated by activated PDGFRB.

Similarity: Only the first and third SH3 domains seem to be involved in RASA1-binding; the second SH3 domain and the SH2 domains do not seem to be involved.

NCBI AND UNIPROT INFORMATION

NCBI GI #	299829184
NCBI GeneID	4690
NCBI Accession #	NP_001177725.1
NCBI GenBank Nucleotide #	NM_001190796.2
UniProt Accession #	P16333; B7Z751; D3DNE3
Molecular Weight	Observed: 43 kDa Predicted: 43 kDa
NCBI Official Full Name	cytoplasmic protein NCK1 isoform 2
NCBI Official Synonym Full Names	NCK adaptor protein 1

NCBI Official Symbol	NCK1
NCBI Official Synonym Symbols	NCK; nck-1; NCKalpha
NCBI Protein Information	cytoplasmic protein NCK1
UniProt Protein Name	Cytoplasmic protein NCK1
UniProt Gene Name	NCK1
UniProt Synonym Gene Names	NCK; Nck-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/nck1-antibody-immunohistochemistry-western-blot-elisa/325962>