

Nck Rabbit mAb

Catalog # AP75774

Product Information

Application	WB, IHC-P, FC
Primary Accession	P16333
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	42864

Additional Information

Gene ID	4690
Other Names	NCK1
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A FC~~1:200-1:1000
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

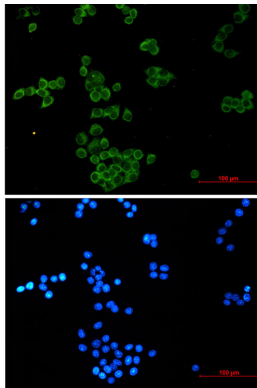
Name	NCK1
Synonyms	NCK
Function	Adapter protein which associates with tyrosine-phosphorylated growth factor receptors, such as KDR and PDGFRB, or their cellular substrates. Maintains low levels of EIF2S1 phosphorylation by promoting its dephosphorylation by PP1. Plays a role in the DNA damage response, 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.
Cellular Location	Cytoplasm. Endoplasmic reticulum. Nucleus. Note=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

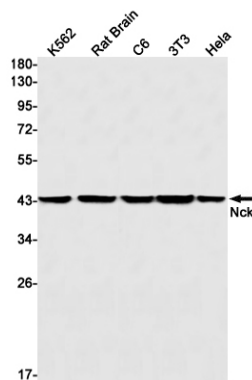
Background

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. Alternatively spliced transcript variants encoding different isoforms have been found.

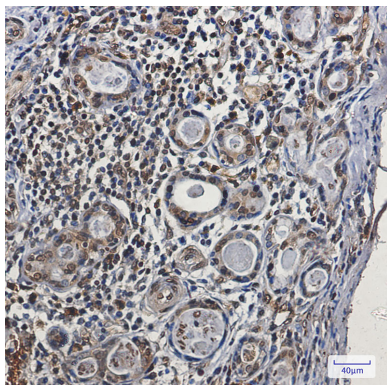
Images



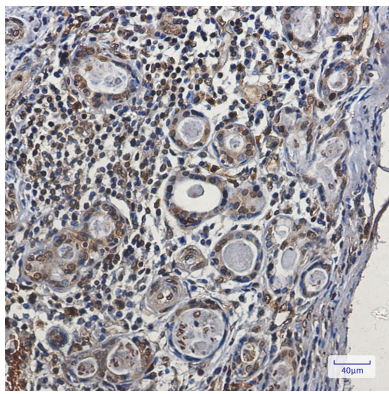
Immunocytochemistry analysis of NCK1 (green) in HeLa using NCK1 antibody, and DAPI (blue).



Western blot analysis of Nck in K562, rat Brain, C6, 3T3, HeLa lysates using Nck antibody.



Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue using Nck antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



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