

For Research Use Only

NCK1 Polyclonal antibody

Catalog Number: 15247-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number: 15247-1-AP	GenBank Accession Number: BC006403	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 400 µg/ml by Nanodrop and 213 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4690	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Source: Rabbit	Full Name: NCK adaptor protein 1	IHC 1:50-1:500 IF 1:10-1:100
Isotype: IgG	Calculated MW: 43 kDa	
Immunogen Catalog Number: AG0979	Observed MW: 43 kDa	

Applications

Tested Applications:
FC, IF, IHC, IP, WB, ELISA

Cited Applications:
IHC, IP, WB

Species Specificity:
human, mouse, rat

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse brain tissue, mouse liver tissue, rat brain tissue

IP: mouse brain tissue,

IHC: human breast cancer tissue,

IF: HeLa cells,

Background Information

NCK family adaptor proteins function to couple tyrosine phosphorylation signals to regulate actin cytoskeletal reorganization that leads to cell motility. Cytoplasmic protein NCK1 (or NCK alpha) is an adapter protein which associates with tyrosine-phosphorylated growth factor receptors, such as KDR and PDGFRB, or their cellular substrates. NCK1 binds a number of intracellular proteins and influences various signaling pathways including GTPase-activating protein of Ras (RasGAP), which is responsible for the down-regulation of Ras. NCK1 is recently reported to regulate the UPR, which secondary to obesity impairs glucose homeostasis and INS actions.

Notable Publications

Author	Pubmed ID	Journal	Application
Peina He	34846647	Mol Biol Rep	WB,IHC
Lei He	30702192	Cell Microbiol	WB
Fan Zhang	28455144	Cell Signal	WB

Storage

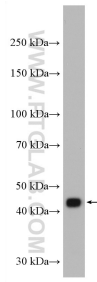
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

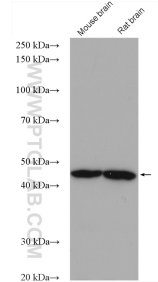
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

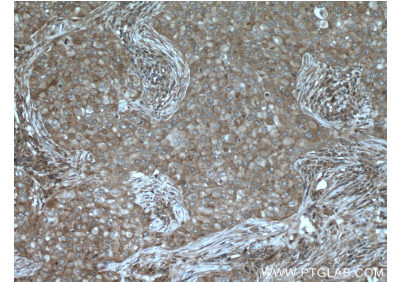
Selected Validation Data



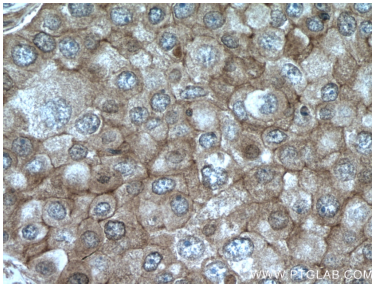
mouse brain tissue were subjected to SDS PAGE followed by western blot with 15247-1-AP (NCK1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



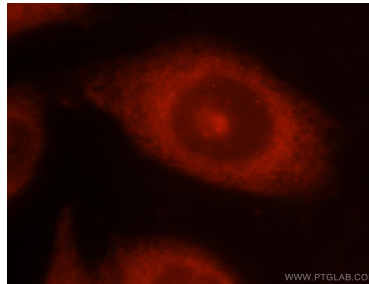
Various lysates were subjected to SDS PAGE followed by western blot with 15247-1-AP (NCK1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



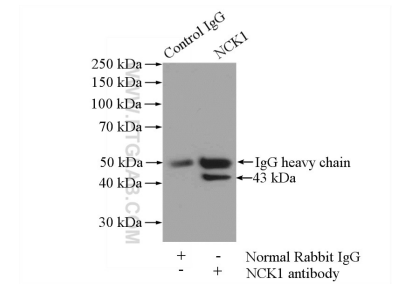
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 15247-1-AP (NCK1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



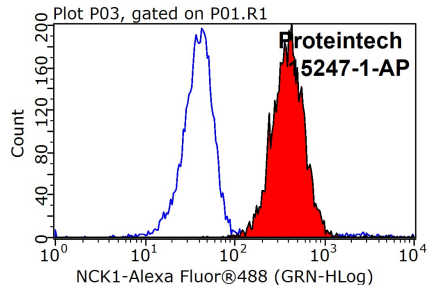
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 15247-1-AP (NCK1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HeLa cells, using NCK1 antibody 15247-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP Result of anti-NCK1 (IP:15247-1-AP, 4ug; Detection:15247-1-AP 1:500) with mouse brain tissue lysate 2640ug.



1X10⁶ HeLa cells were stained with 0.2ug NCK1 antibody (15247-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.