

For Research Use Only

# NCKAP1 Polyclonal antibody

Catalog Number: 12140-1-AP **11 Publications**



## Basic Information

<b>Catalog Number:</b> 12140-1-AP	<b>GenBank Accession Number:</b> BC015025	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 200 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 10787	<b>Recommended Dilutions:</b> WB 1:2000-1:16000 IHC 1:20-1:200 IF-P 1:50-1:500 IF/ICC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9Y2A7	
<b>Isotype:</b> IgG	<b>Full Name:</b> NCK-associated protein 1	
<b>Immunogen Catalog Number:</b> AG2788	<b>Calculated MW:</b> 129 kDa	
	<b>Observed MW:</b> 115-125 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IF-P, ELISA	<b>Positive Controls:</b> WB : mouse brain tissue, rat brain IHC : human gliomas tissue, human heart tissue IF-P : mouse brain tissue, IF/ICC : U-251 cells,
<b>Cited Applications:</b> WB, IHC	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, rat	

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

## Background Information

NCK-associated protein 1 (NCKAP1), also known as NAP1 or HEM2, is encoded by an apoptosis-related gene human NAP1, the expression of which is strongly down-regulated in sporadic Alzheimer's disease (AD). Human NAP1 is predominantly expressed in neuronal cells. Antisense oligo DNA of human NAP1 transcripts was found to induce apoptosis of neuronal cells. Loss of NAP1 function disrupts neuronal differentiation. Likewise, NAP1 plays an essential role in facilitating neuronal cytoskeletal changes underlying the postmitotic differentiation of cortical neurons, a critical step in functional wiring of the cortex. Human NAP1 is also proved to be an orthologue of rat Nap1 which binds to the adaptor molecule NCK in signal transduction.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiao-Ping Zhong	31068575	Cell Death Dis	IHC
Tak Shun Fung	35290799	Curr Biol	WB
Anton A Turanov	24897171	Biochem J	

## Storage

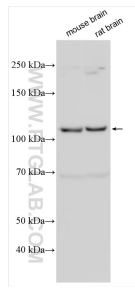
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

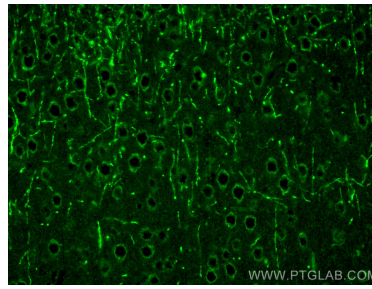
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

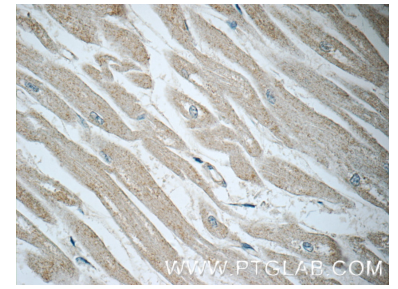
## Selected Validation Data



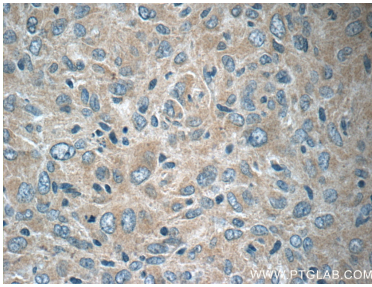
Various lysates were subjected to SDS PAGE followed by western blot with 12140-1-AP (NCKAP1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



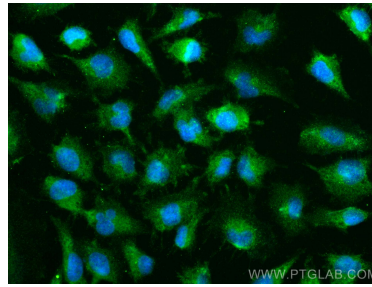
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using NCKAP1 antibody (12140-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 12140-1-AP (NCKAP1 Antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 12140-1-AP (NCKAP1 Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed U-251 cells using NCKAP1 antibody (12140-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).