

For Research Use Only

# NEK9 Polyclonal antibody

Catalog Number: 11192-1-AP

3 Publications



## Basic Information

### Catalog Number:

11192-1-AP

### Size:

150ul, Concentration: 750 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1678

### GenBank Accession Number:

BC009336

### GeneID (NCBI):

91754

### UNIPROT ID:

Q8TD19

### Full Name:

NIMA (never in mitosis gene a)-related kinase 9

### Calculated MW:

107 kDa

### Observed MW:

120 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:9000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human

### Positive Controls:

WB : HeLa cells, human placenta tissue, HepG2 cells

IP : HeLa cells,

IHC : human lymphoma tissue,

IF/ICC : HepG2 cells,

**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

NEK9 is also named as KIAA1995, NEK8, NERCC and belongs to the NEK Ser/Thr protein kinase family. It is originally identified as  $\alpha$ -casein kinase that associates with a putative substrate Bcd2. It is also independently identified as a Nek6- and Ran GTPase-binding protein under a different name, Nercc1(PMID:14660563). Nek9, together with the highly similar (80% identical) Nek6 and Nek7, form a signaling module that is activated during mitosis and involved in the regulation of the mitotic spindle. The endogenous Nek9 (with predicted molecular mass of 120 kDa) has an apparent molecular mass of 600 kDa, also compatible with a tetramer(PMID:21454704).

## Notable Publications

Author	Pubmed ID	Journal	Application
Andrea M Brum	30283877	JBMR Plus	IF
Guangfu Wang	39627360	Cell Death Differ	WB,IP,IHC
Lei Chen	37835513	Cancers (Basel)	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

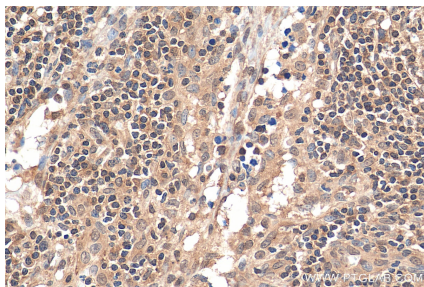
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

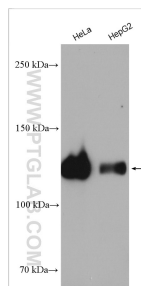
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

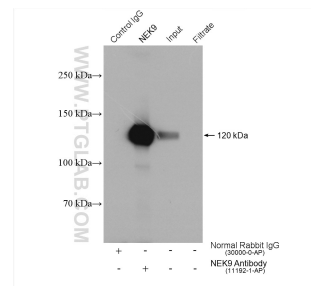
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 11192-1-AP (NEK9 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



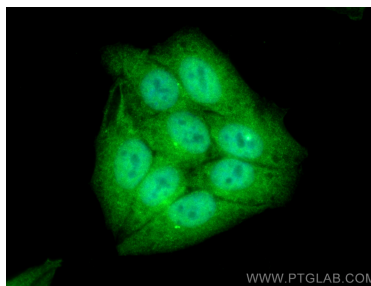
Various lysates were subjected to SDS PAGE followed by western blot with 11192-1-AP (NEK9 antibody) at dilution of 1:4500 incubated at room temperature for 1.5 hours.



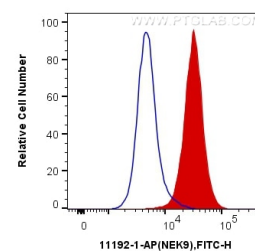
IP result of anti-NEK9 (IP:11192-1-AP, 4ug; Detection:11192-1-AP 1:1000) with HeLa cells lysate 1880 ug.



Immunofluorescent analysis of HepG2 cells, using NEK9 antibody 11192-1-AP at 1:50 dilution and FITC-labeled donkey anti-rabbit IgG(green). Blue pseudocolor = DAPI (fluorescent DNA dye).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NEK9 antibody (11192-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Anti-Human NEK9 (11192-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug x. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).