For Research Use Only

NEK9 Polyclonal antibody

Catalog Number:11192-1-AP 3 Publications

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Basic Information

Catalog Number:
11192-1-AP

Size:
750 μg/ml

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

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 : HeLa cells, human placenta tissue, HepG2 cells

IP : HeLa cells,

IHC : human lymphoma tissue,

IF/ICC : HepG2 cells,

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 α β-casein kinase that associates with a putative substrate Bicd2. 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

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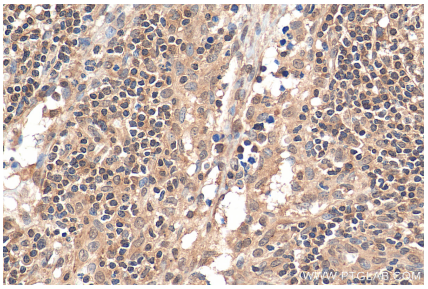
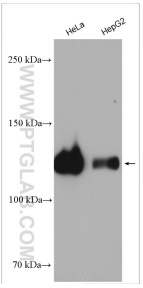
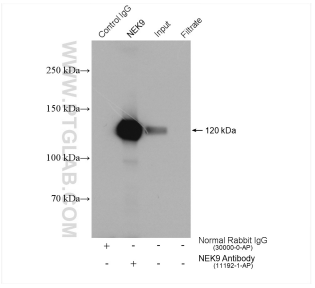
Selected Validation Data



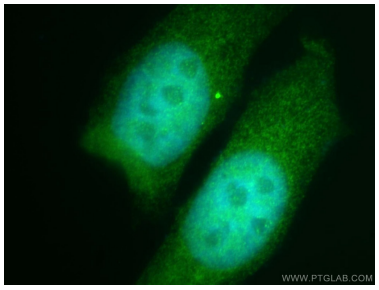
Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 11192-1-AP (NEK9 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



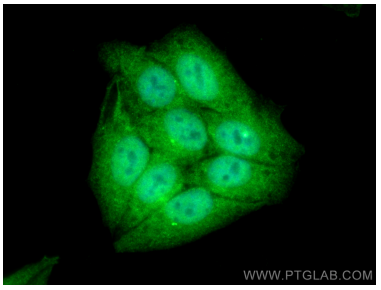
Various lysates were subjected to SDS PAGE followed by western blot with 11192-1-AP (NEK9 antibody) at dilution of 1:4500 incubated at room temperature for 1.5 hours.



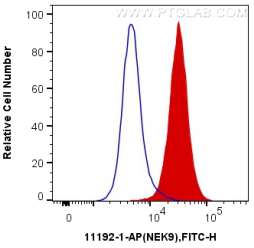
IP result of anti-NEK9 (IP:11192-1-AP, 4ug; Detection:11192-1-AP 1:1000) with HeLa cells lysate 1880 ug.



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).



1X10^6 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).