

NEK9 Polyclonal Antibody

Catalog number: 11192-1-AP

Size: 37 µg/150 µl

Source: Rabbit

Isotype: IgG

Synonyms:

NEK9; DKFZp434D0935,

KIAA1995, Nek8, NEK9,

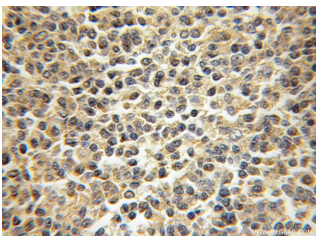
NERCC, NERCC1, Nercc1

kinase, NimA related kinase 8,

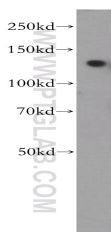
NimA related protein kinase 9



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).



Immunohistochemical of paraffin-embedded human lymphoma using 11192-1-AP (NEK9 antibody) at dilution of 1:50 (under 10x lens)



HeLa cells were subjected to SDS PAGE followed by western blot with 11192-1-AP (NEK9 antibody) at dilution of 1:500

Background

NEK9 is also named as KIAA1995, NEK8, NERCC and belongs to the NEK Ser/Thr protein kinase family. It is originally identified as $\alpha\beta$ -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).

Applications

Tested applications:	ELISA, WB, IHC, IF, FC, IP
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated NEK9 MW:	107 kDa
Observed NEK9 MW:	120kd
Positive WB detected in	HeLa cells, A549 cells, human placenta tissue
Positive IP detected in	HeLa cells
Positive IHC detected in	Human lymphoma tissue
Positive IF detected in	HepG2 cells
Positive FC detected in	HepG2 cells
Recommended dilution:	WB: 1:200-1:2000
	IP: 1:200-1:2000
	IHC: 1:20-1:200
	IF: 1:20-1:200
	FC: N/A

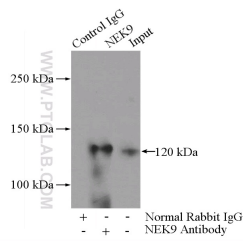
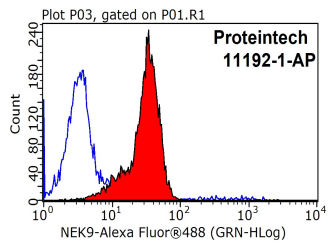
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag1678
GenBank accession number:	BC009336
Gene ID (NCBI):	91754
Full name:	NIMA (never in mitosis gene a)- related kinase 9

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



1X10⁶ HepG2 cells were stained with .2ug NEK9 antibody (11192-1-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.

IP Result of anti-NEK9 (IP:11192-1-AP, 5ug; Detection:11192-1-AP 1:500) with HeLa cells lysate 2000ug.