

# **Product Name: Nek9 Rabbit Polyclonal Antibody**

Catalog #: APRab14559

For research use only.

## **Summary**

**Description** Rabbit polyclonal Antibody

**Host** Rabbit

Application WB,ICC/IF,ELISA
Reactivity Human,Mouse,Rat
Conjugation Unconjugated
Modification Unmodified

**Isotype** IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

**Storage** Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

**Shipping** Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer** 

preservative N.

**Purification** Affinity purification

# **Application**

**Dilution Ratio** WB 1:500-1:2000,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000

Molecular Weight 107kDa

# **Antigen Information**

Gene Name NEK9

NEK9; KIAA1995; NEK8; NERCC; Serine/threonine-protein kinase Nek9; Nercc1 kinase; Never

Alternative Names in mitosis A-related kinase 9; NimA-related protein kinase 9; NimA-related kinase 8; Nek8

 Gene ID
 91754.0

 SwissProt ID
 08TD19

The antiserum was produced against synthesized peptide derived from human NEK9. AA Immunogen

range:176-225

# **Background**

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

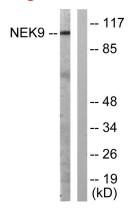


This gene encodes a member of the NimA (never in mitosis A) family of serine/threonine protein kinases. The encoded protein is activated in mitosis and, in turn, activates other family members during mitosis. This protein also mediates cellular processes that are essential for interphase progression. [provided by RefSeq, Jul 2016],catalytic activity:ATP + a protein = ADP + a phosphoprotein, cofactor: Magnesium, developmental stage: Expression varied mildly across the cell cycle, with highest expression observed in G1 and stationary-phase cells, domain: Dimerizes through its coiled-coil domain, enzyme regulation: Activated during mitosis by intramolecular autophosphorylation. Activity and autophosphorylation is activated by manganese >> magnesium ions. Sensitive to increasing concentration of detergents. It is not cell-cycle regulated but activity is higher in G0-arrested cells., function: Pleiotropic regulator of mitotic progression, participating in the control of spindle dynamics and chromosome separation. Phosphorylates different histones, myelin basic protein, beta-casein, and BICD2. Phosphorylates histone H3 on serine and threonine residues and beta-casein on serine residues. Important for G1/S transition and S phase progression.,PTM:Autophosphorylated on serine and threonine residues. When complexed with FACT, exhibits markedly elevated phosphorylation on Thr-210. During mitosis, not phosphorylated on Thr-210. Phosphorylated by CDC2 in vitro., similarity: Belongs to the protein kinase superfamily. NEK Ser/Thr protein kinase subfamily, similarity: Contains 1 protein kinase domain, similarity: Contains 6 RCC1 repeats, subunit: Homodimer. Binds to Ran GTPase. Has a greater affinity for Ran-GDP over Ran-GTP. Interacts with NEK6, NEK7 and BICD2. Interacts with SSRP1 and SUPT16H, the 2 subunits of the FACT complex., tissue specificity: Most abundant in heart, liver, kidney and testis. Also expressed in smooth muscle cells and fibroblasts.,

#### **Research Area**

**Cell Biology** 

### **Image Data**



Western blot analysis of lysates from A549 cells, using NEK9 Antibody. The lane on the right is blocked with the synthesized peptide.

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