

Nek9 Polyclonal Antibody

YT3035 Catalog No:

Human; Mouse; Rat Reactivity:

Applications: WB;IF;ELISA

Target: Nek9

Gene Name: NEK9

Protein Name: Serine/threonine-protein kinase Nek9

Q8TD19

217718

Human Gene Id: 91754

Human Swiss Prot

No:

Mouse Swiss Prot

Mouse Gene Id:

No:

Q8K1R7

Immunogen: The antiserum was produced against synthesized peptide derived from human

NEK9. AA range:176-225

Nek9 Polyclonal Antibody detects endogenous levels of Nek9 protein. **Specificity:**

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other

applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

1/2

Observed Band:

107kD

Background:

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],

Function:

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 pha

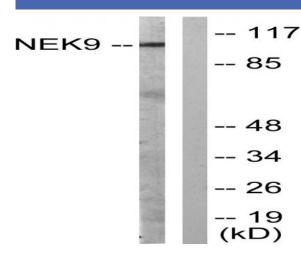
Subcellular Location:

Cytoplasm . Nucleus .

Expression:

Most abundant in heart, liver, kidney and testis. Also expressed in smooth muscle cells and fibroblasts.

Products Images



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