Nek9 (Phospho Thr210) Rabbit pAb

CatalogNo: YP0564

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 110kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
IF 1:200-1:1000
ELISA 1:20000
Not yet tested in other applications.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human NEK9 around the phosphorylation site of Thr210. AA range:176-225

Specificity Phospho-Nek9 (T210) Polyclonal Antibody detects endogenous levels of Nek9 protein only when phosphorylated at T210.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):AEtLV

Target Information

Gene name NEK9

Protein Name Serine/threonine-protein kinase Nek9

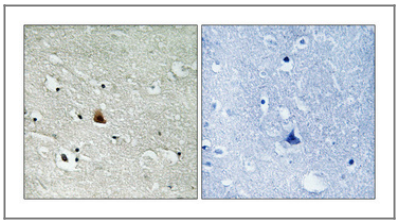
Organism	Gene ID	UniProt ID
Human	91754;	Q8TD19;
Mouse	217718;	Q8K1R7;

Cellular Localization Cytoplasm . Nucleus .

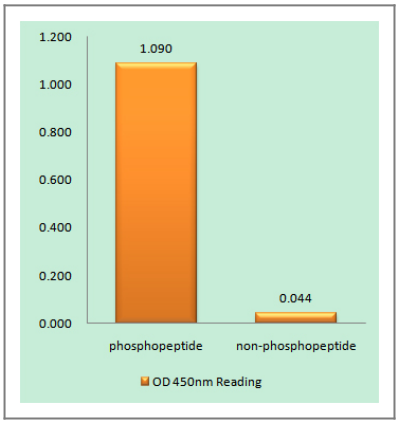
Tissue specificity Most abundant in heart , liver , kidney and testis. Also expressed in smooth muscle cells and fibroblasts.

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 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 family. NIMA 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. ,

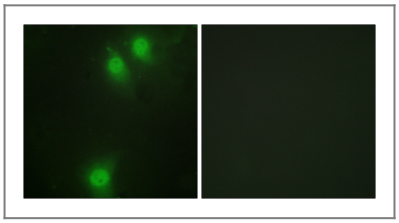
Validation Data



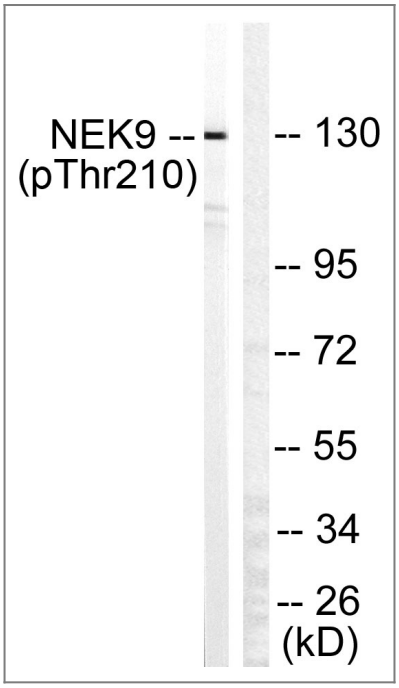
Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4℃ overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using NEK9 (Phospho-Thr210) Antibody



Immunofluorescence analysis of HeLa cells, using NEK9 (Phospho-Thr210) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HepG2 cells, using NEK9 (Phospho-Thr210) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
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