



Nek9 (phospho Thr210) Polyclonal Antibody

Catalog No	YP-Ab-14421
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	NEK9
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.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	EC:2.7.11.1;KIAA1995;Nek8;NERCC;Never in mitosis A-related kinase 9;Nek9; Serine/threonine-protein kinase Nek9;Nercc1 kinase;NimA-related protein kinase 9;NimA-related kinase 8
Observed Band	110kD
Calculated Molecular Weight	110kD
Cell Pathway	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 pha

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],

matters needing attention

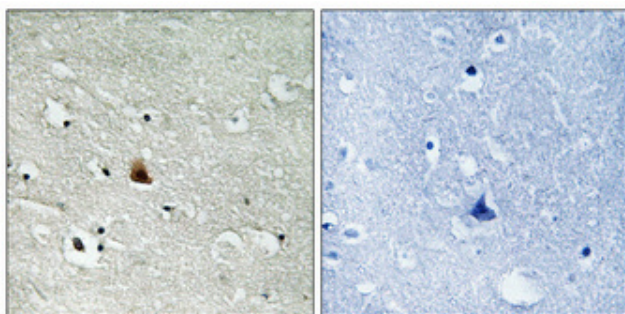
Avoid repeated freezing and thawing!

Usage suggestions

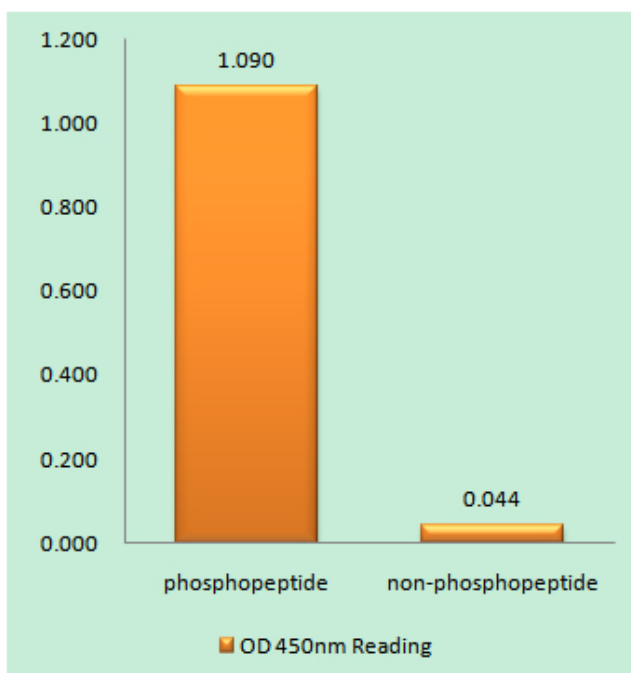
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



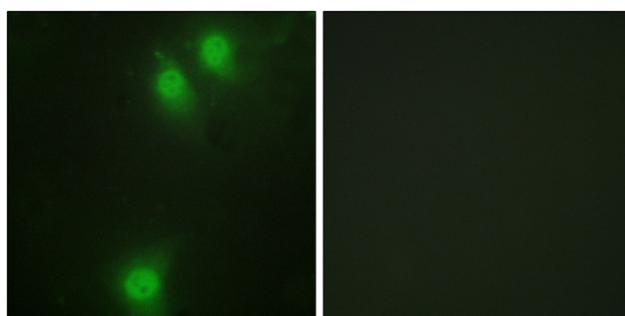
Products Images



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. Negative control (right) obtained 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.

