


Product datasheet

Anti-NEK9 antibody ab63257

1 Image

Overview

Product name	Anti-NEK9 antibody
Description	Rabbit polyclonal to NEK9
Tested applications	Suitable for: WB, ELISA
Species reactivity	Reacts with: Human Predicted to work with: Mouse 
Immunogen	Synthesized non-phosphopeptide derived from human NEK9 around the phosphorylation site of threonine 210 (A-E-T ^P -L-V).
Positive control	extracts from A549 cells

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS, 150mM Sodium chloride, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab63257** in the following tested applications.

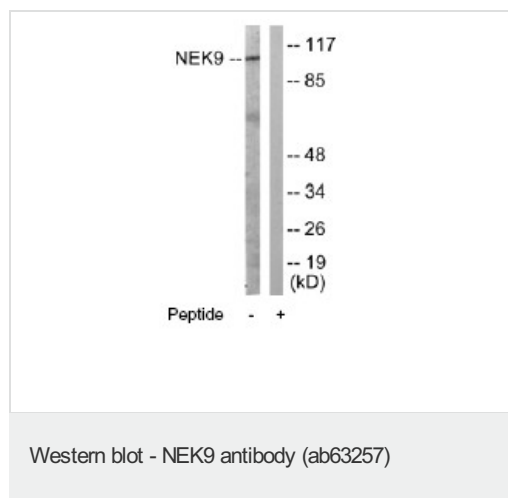
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Detects a band of approximately 107 kDa (predicted molecular weight: 107 kDa).
ELISA		1/5000.

Target

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.
Tissue specificity	Most abundant in heart, liver, kidney and testis. Also expressed in smooth muscle cells and fibroblasts.
Sequence similarities	Belongs to the protein kinase superfamily. NEK Ser/Thr protein kinase family. NIMA subfamily. Contains 1 protein kinase domain. Contains 6 RCC1 repeats.
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.
Post-translational modifications	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 CDK1 in vitro.
Cellular localization	Cytoplasm. Nucleus.

Images



All lanes : Anti-NEK9 antibody (ab63257) at 1/500 dilution

Lane 1 : extracts from A549 cells, without immunising peptide

Lane 2 : extracts from A549 cells, with immunising peptide

Predicted band size : 107 kDa

Observed band size : 107 kDa

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