

## Product datasheet

# Anti-NEK9 antibody ab63257

1 Image

### Overview

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

### Properties

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

### Applications

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

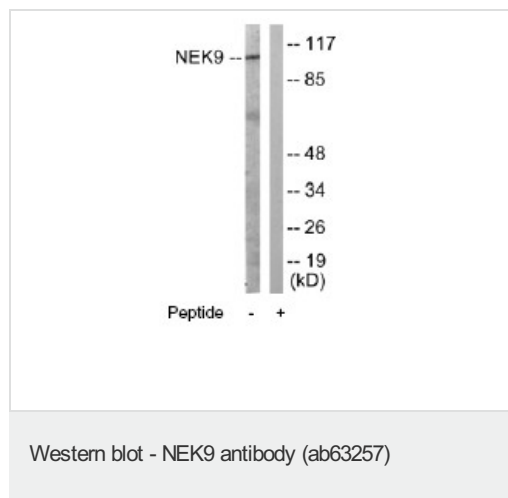
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	Most abundant in heart, liver, kidney and testis. Also expressed in smooth muscle cells and fibroblasts.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. NEK Ser/Thr protein kinase family. NIMA subfamily. Contains 1 protein kinase domain. Contains 6 RCC1 repeats.
<b>Developmental stage</b>	Expression varied mildly across the cell cycle, with highest expression observed in G1 and stationary-phase cells.
<b>Domain</b>	Dimerizes through its coiled-coil domain.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	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

The amount of positive control loading for the WB is 5-30 ug of total protein. The amount of the peptide for the WB is 5-10 ug.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery

- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <http://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors