

Anti-NEK9 Antibody
Rabbit polyclonal antibody to NEK9
Catalog # AP61293**Specification**

Anti-NEK9 Antibody - Product Information

Application	WB, IF/IC
Primary Accession	Q8TD19
Other Accession	Q8K1R7
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	107168

Anti-NEK9 Antibody - Additional Information**Gene ID** 91754**Other Names**

KIAA1995; NEK8; NERCC; Serine/threonine-protein kinase Nek9; Nercc1 kinase; Never in mitosis A-related kinase 9; NimA-related protein kinase 9; NimA-related kinase 8; Nek8

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human NEK9. The exact sequence is proprietary.

DilutionWB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500)
IF/IC~~N/A**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-NEK9 Antibody - Protein Information**Name** NEK9 {ECO:0000303|PubMed:12840024, ECO:0000312|HGNC:HGNC:18591}**Function**

Pleiotropic regulator of mitotic progression, participating in the control of spindle dynamics and chromosome separation (PubMed:12101123, PubMed:12840024, PubMed:14660563, PubMed:19941817). Phosphorylates different histones, myelin basic protein,

beta-casein, and BICD2 (PubMed:11864968). Phosphorylates histone H3 on serine and threonine residues and beta-casein on serine residues (PubMed:11864968). Important for G1/S transition and S phase progression (PubMed:12840024, PubMed:14660563, PubMed:19941817). Phosphorylates NEK6 and NEK7 and stimulates their activity by releasing the autoinhibitory functions of Tyr-108 and Tyr-97 respectively (PubMed:12840024, PubMed:14660563, PubMed:19941817, PubMed:26522158).

Cellular Location

Cytoplasm. Nucleus

Tissue Location

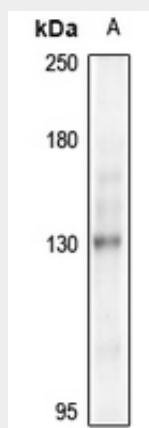
Most abundant in heart, liver, kidney and testis. Also expressed in smooth muscle cells and fibroblasts

Anti-NEK9 Antibody - Protocols

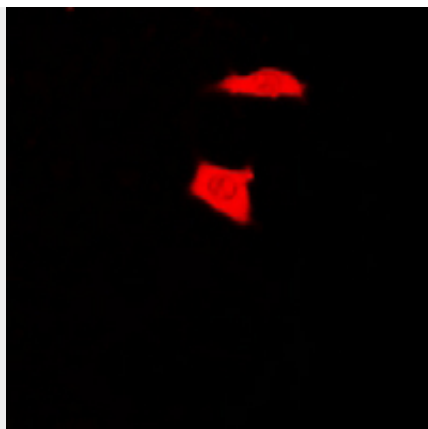
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-NEK9 Antibody - Images



Western blot analysis of NEK9 expression in LO2 (A) whole cell lysates.



Immunofluorescent analysis of NEK9 staining in NIH3T3 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a Alexa Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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