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Anti-NEK9 Antibody

Catalog # AP61293

Product Information

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

Additional Information

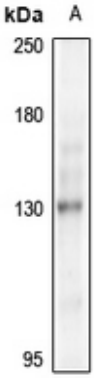
Gene ID	91754
Other Names	KIAA1995; NEK8; NERCC; Serine/threonine-protein kinase Nek9; Nercc1 kinase; Never in mitosis A-related kinase 9; NimA-related protein kinase 9; NimA-related kinase 8; Nek8
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human NEK9. The exact sequence is proprietary.
Dilution	WB~~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 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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

Images



Western blot analysis of NEK9 expression in LO2 (A) whole cell lysates. (Predicted band size: 107 kD; Observed band size: 130 kD)



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 hidified 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.