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# Anti-NEK9 Antibody

Rabbit polyclonal antibody to NEK9
Catalog # AP61293

## Product Information

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

## Additional Information

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| **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** | Recognizes endogenous levels of NEK9 protein. |
| **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 0.09% (W/V) sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

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| **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).<br><br>Cytoplasm. Nucleus |

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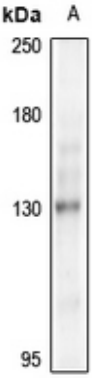
| **Cellular Location** | |
| **Tissue Location** | Most abundant in heart, liver, kidney and testis. Also expressed in smooth muscle cells and fibroblasts |

## Background

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

## 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 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.