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KD-Validated Anti-NIMA Related Kinase 9 Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI1934

Product Information

Application	WB
Primary Accession	Q8TD19
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB6355
Calculated MW	107168
Gene Name	NEK9
Aliases	NEK9; NIMA Related Kinase 9; NERCC; NERCC1; Nek8; NIMA (Never In Mitosis Gene A)- Related Kinase 9; Serine/Threonine-Protein Kinase Nek9; NimA-Related Protein Kinase 9; DKFZp434D0935; Nercc1 Kinase; EC 2.7.11.1; MGC16714 2 5Never In Mitosis A-Related Kinase 9; NimA-Related Kinase 8; KIAA1995; LCCS10; APUG; NEK8; NC
Immunogen	Recombinant protein of human NEK9

Additional Information

Gene ID	91754
Other Names	Serine/threonine-protein kinase Nek9, 2.7.11.1, Nercc1 kinase, Never in mitosis A-related kinase 9, NimA-related protein kinase 9, NimA-related kinase 8, Nek8, NEK9 {ECO:0000303|PubMed:12840024, ECO:0000312|HGNC:HGNC:18591}

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

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