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

Mouse monoclonal antibody
Catalog # AGI1934

Specification

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

Application	**WB**
Primary Accession	Q8TD19
Reactivity	**Rat, Human**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**Predicted, 107 kDa, observed, 107 kDa KDa**
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**

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

KD-Validated Anti-NIMA Related Kinase 9 Mouse Monoclonal 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:<a href="http://www.uniprot.org/citations/11864968"

target="_blank">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

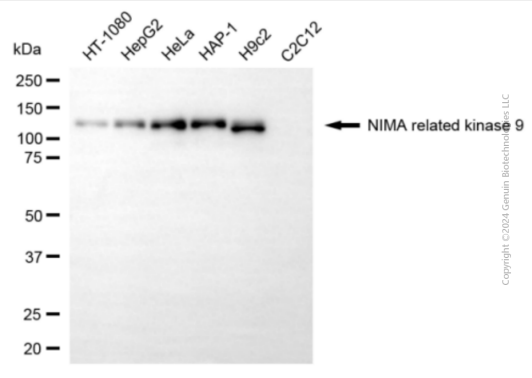
Tissue Location
Most abundant in heart, liver, kidney and testis. Also expressed in smooth muscle cells and fibroblasts

KD-Validated Anti-NIMA Related Kinase 9 Mouse Monoclonal 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 Cytomety
- Cell Culture

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



Western blotting analysis using anti-NIMA related kinase 9 antibody (Cat#AGI1934). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-NIMA related kinase 9 antibody (Cat#AGI1934, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.

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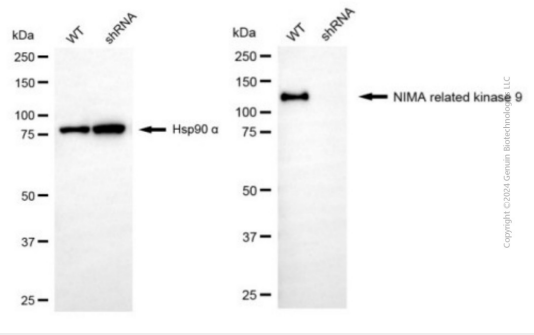

Western blotting analysis using anti-NIMA related kinase 9 antibody (Cat#AGI1934). NIMA related kinase 9 expression in wild type (WT) and NIMA related kinase 9 (NEK9) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-NIMA related kinase 9 antibody (Cat#AGI1934, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.