

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
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 Recombinant protein of human NEK9
Immunogen	

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

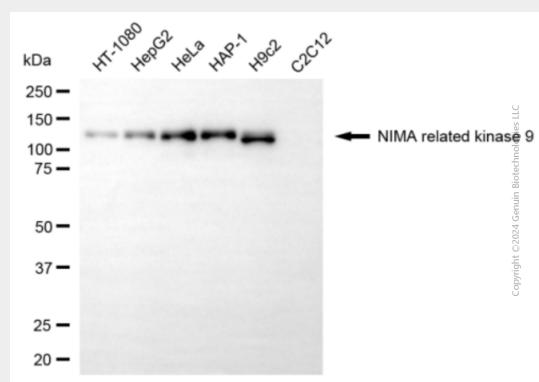
Most abundant in heart, liver, kidney and testis. Also expressed in smooth muscle cells and fibroblasts

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

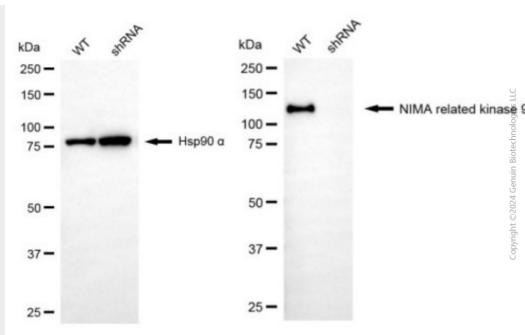
Provided below are standard protocols that you may find useful for product applications.

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



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.

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