

Rabbit anti-Human, mouse NEK9 Polyclonal Antibody | anti-NEK9 antibody

NEK9 Antibody (C-term)

CATALOG # AAA284297	HOST Rabbit	REACTIVITY Human, mouse	APPLICATIONS Immunohistochemistry, ELISA, Western Blot
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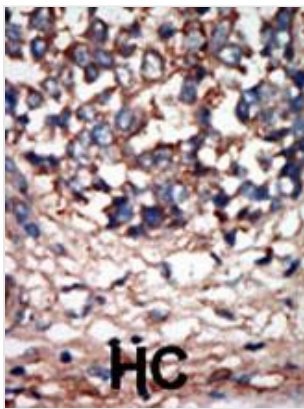
PRODUCT SYNONYMS

NEK9; Polyclonal Antibody; NEK9 Antibody (C-term); Serine/threonine-protein kinase Nek9; Nercc1 kinase; Never in mitosis A-related kinase 9; NimA-related protein kinase 9; NimA-related kinase 8; Nek8; KIAA1995; NEK8; NERCC; anti-NEK9 antibody

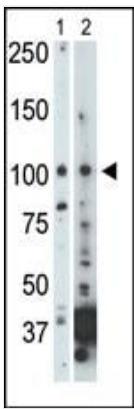
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This NEK9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 846-877 amino acids from the C-terminal region of human NEK9.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	846-877
Sequence Length	979
Applicable Applications for anti-NEK9 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohiostchemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)
The anti-NEK9 Pab is used in Western blot to detect NEK9 in 293 cell lysate (Lane 1) and mouse heart tissue lysate (Lane 2).

ADDITIONAL INFORMATION

Related Product Information for anti-NEK9 antibody	NEK9, a member of the NIMA subfamily of Ser/Thr protein kinases, is a pleiotropic regulator of mitotic progression, participating in the control of spindle dynamics and chromosome separation. It phosphorylates different histones (serine and threonine residues on H3), myelin basic protein, beta-casein (serine residues), and BICD2. NEK9 is activated during mitosis by intramolecular autophosphorylation. Activity and autophosphorylation is activated by manganese >> magnesium ions, and is sensitive to increasing concentration of detergents. This protein is not cell-cycle regulated but activity is higher in G0-arrested cells. NEK is part of a homodimer that binds to Ran GTPase, and exhibits a greater affinity for Ran-GDP over Ran-GTP. Interaction is also noted with NEK6 and NEK7 family members. This cytoplasmic protein is most abundant in heart, liver, kidney and testis, and is also expressed in smooth muscle cells and fibroblasts. Expression varies mildly across the cell cycle, with highest expression observed in G1 and stationary-phase cells.
Product Categories/Family for anti-NEK9 antibody	Cell Biology; Signal transduction
References	Tan,B.C. et al. J. Biol. Chem. 279 (10), 9321-9330 (2004) Belham,C. et al. J. Biol. Chem. 278 (37), 34897-34909 (2003) Roig, J. et al. Genes Dev. 16(13):1640-1658 (2002). Holland, P.M. et al. J. Biol. Chem. 277(18):16229-16240 (2002). Strausberg, R.L. et al. Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).

NCBI AND UNIPROT INFORMATION

NCBI GI #	222136641
NCBI GeneID	91754
NCBI Accession #	NP_149107.4
NCBI GenBank Nucleotide #	NM_033116.4
UniProt Accession #	Q8TD19; Q52LK6; Q8NCN0; Q8TCY4; Q9UPI4; Q9Y6S4; Q9Y6S5; Q9Y6S6
Molecular Weight	107168
NCBI Official Full Name	serine/threonine-protein kinase Nek9
NCBI Official Synonym Full Names	NIMA-related kinase 9
NCBI Official Symbol	NEK9
NCBI Official Synonym Symbols	Nek8; NERCC; NERCC1

NCBI Protein Information	serine/threonine-protein kinase Nek9
UniProt Protein Name	Serine/threonine-protein kinase Nek9
UniProt Gene Name	NEK9
UniProt Synonym Gene Names	KIAA1995; NEK8; NERCC; NimA-related protein kinase 9; Nek8
UniProt Entry Name	NEK9_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/nek9-antibody-immunohistochemistry-western-blot-elisa/284297>