NEK9 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NEK9, Polyclonal Antibody
Full Product Name	NEK9, CT (NIMA (Never in Mitosis Gene A)-Related Kinase 9, Never in Mitosis A-related Kinase 9, NIMA-related Kinase Nek9, NimA-related Protein Kinase 9, DKFZp434D0935, HGNC:18591, KIAA1995, MGC138306, MGC16714, Nercc1 Kinase, NERCC1, NERCC, NIMA-related K
Product Gene Name	anti-NEK9 antibody
Product Synonym Names	EC=2.7.11.1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human NEK9. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	107,168 Da
Chromosome Location	Chromosome: 14; NC_000014.8 (75548818..75593778, complement). Location: 14q24.3
OMIM	609798
3D Structure	ModBase 3D Structure for Q8TD19
Immunogen	Synthetic peptide selected from the C-terminal region of human NEK9 (KLH).
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-NEK9 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-NEK9 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-NEK9 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-NEK9 antibody	MBS6489654 is an antibody targeting NEK9. Also known as NEK9, CT (NIMA (Never in Mitosis Gene A)-Related Kinase 9, Never in Mitosis A-related Kinase 9, NIMA-related Kinase Nek9, NimA-related Protein Kinase 9, DKFZp434D0935, HGNC:18591, KIAA1995, MGC138306, MGC16714, Nercc1 Kinase, NERCC1, NERCC, NIMA-related K. Reactive in Human, Mouse. Host: Rabbit.

Product References and Citations for anti-NEK9 antibody	1. Tan, B.C. et al. J. Biol. Chem. 279(10), 9321-9330 (2004). 2. Belham, C. et al. J. Biol. Chem. 278(37), 34897-34909 (2003). 3. Roig, J. et al. Genes Dev. 16(13):1640-1658 (2002). 4. Holland, P.M. et al. J. Biol. Chem. 277(18):16229-16240 (2002). 5. Strausberg, R.L. et al. Proc. Natl. Acad. Sci. USA 99(26):16899-16903 (2002).
Other Notes	Small volumes of anti-NEK9 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NEK9. It may not necessarily be applicable to this product.

NCBI GI #	222136641
NCBI GeneID	91754
NCBI Accession #	NP_149107.4
UniProt Primary Accession #	Q8TD19
UniProt Secondary Accession #	Q52LK6; Q8NCN0; Q8TCY4; Q9UPI4; Q9Y6S4; Q9Y6S5; Q9Y6S6
UniProt Related Accession #	Q8TD19
GenBank Nucleotide #	NM_033116.4
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
UniProt Protein Name	Serine/threonine-protein kinase Nek9
UniProt Synonym Protein Names	Nercc1 kinase; Never in mitosis A-related kinase 9; NimA-related protein kinase 9; NimA-related kinase 8
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	NEK9
UniProt Synonym Gene Names	KIAA1995; NEK8; NERCC; NimA-related protein kinase 9; Nek8
UniProt Entry Name	NEK9_HUMAN
NCBI Protein Information	serine/threonine-protein kinase Nek9; nercc1 kinase; nimA-related kinase 8; NIMA-related kinase Nek8; nimA-related protein kinase 9; never in mitosis A-related kinase 9; NIMA (never in mitosis gene a)- related kinase 9
UniProt Comments for NEK9	NEK9: a protein kinase related to the NIMA (never in mitosis, gene A) serine/threonine kinase of Aspergillus nidulans. Pleiotropic regulator of mitotic progression, participating in the control of spindle dynamics and chromosome separation. Protein type: Protein kinase, Other; Autophagy; Kinase, protein; Protein kinase, Ser/Thr (non-receptor); EC 2.7.11.1; Other group; NEK family Chromosomal Location of Human Ortholog: 14q24.3 Cellular Component: nucleus; cytosol Molecular Function: protein serine/threonine kinase activity; protein binding; metal ion binding; protein kinase binding; ATP binding Biological Process: mitosis; cell division; mitotic nuclear envelope disassembly; mitotic cell cycle; protein amino acid phosphorylation
Research Articles on NEK9	**1.** Nek9 phosphorylates NEDD1 on Ser377 driving its recruitment and thereby that of gamma-tubulin to the centrosome in mitotic cells.

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