

NEK9 Antibody (Kinase Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10889**Specification**

NEK9 Antibody (Kinase Domain) - Product Information

Application	IHC
Primary Accession	Q8TD19
Reactivity	Human, Mouse, Rabbit, Monkey, Pig, Chicken, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	107kDa KDa

NEK9 Antibody (Kinase Domain) - 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, KIAA1995, NEK8, NERCC

Target/Specificity

Human NEK9. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

NEK9 Antibody (Kinase Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

NEK9 Antibody (Kinase Domain) - 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](http://www.uniprot.org/citations/12101123), PubMed: [12840024](http://www.uniprot.org/citations/12840024), PubMed: [14660563](http://www.uniprot.org/citations/14660563), PubMed: [19941817](http://www.uniprot.org/citations/19941817)). Phosphorylates different histones, myelin basic protein, beta-casein, and BICD2 (PubMed: [11864968](http://www.uniprot.org/citations/11864968)). Phosphorylates histone H3 on serine and threonine residues and beta-casein on serine residues (PubMed: [11864968](http://www.uniprot.org/citations/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

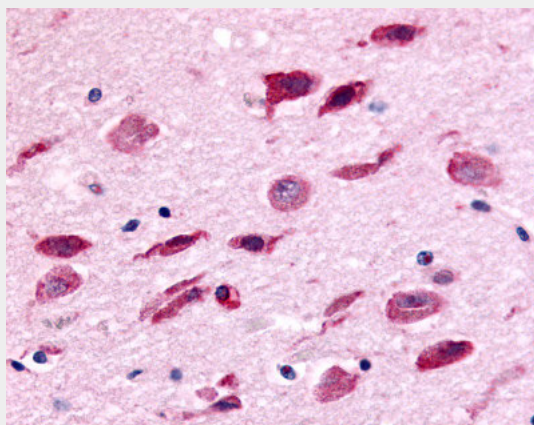
Tissue Location

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

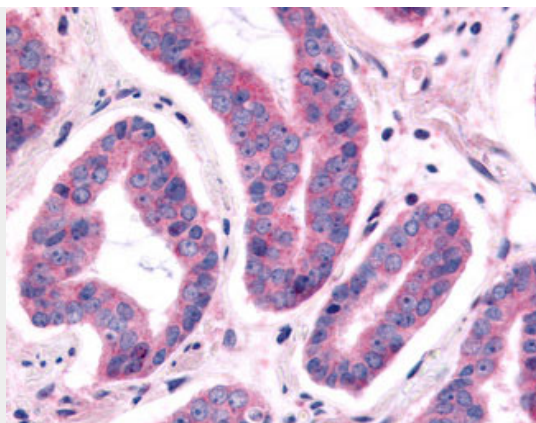
NEK9 Antibody (Kinase Domain) - Protocols

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

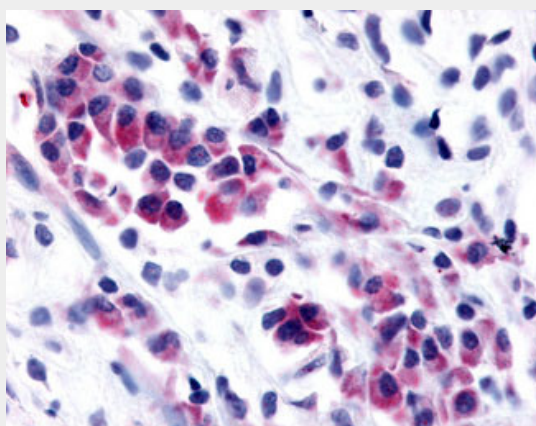
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NEK9 Antibody (Kinase Domain) - Images

Anti-NEK9 antibody ALS10889 IHC of human brain.



Anti-NEK9 antibody IHC of human Prostate, Carcinoma.



Anti-NEK9 antibody IHC of human Breast, Carcinoma.

NEK9 Antibody (Kinase Domain) - Background

Pleiotropic regulator of mitotic progression, participating in the control of spindle dynamics and chromosome separation. Phosphorylates different histones, myelin basic protein, beta-casein, and BICD2. Phosphorylates histone H3 on serine and threonine residues and beta-casein on serine residues. Important for G1/S transition and S phase progression. Phosphorylates NEK6 and NEK7 and stimulates their activity by releasing the autoinhibitory functions of Tyr-108 and Tyr-97 respectively.

NEK9 Antibody (Kinase Domain) - References

Holland P.M.,et al.J. Biol. Chem. 277:16229-16240(2002).
Roig J.,et al.Genes Dev. 16:1640-1658(2002).
Ohara O.,et al.DNA Res. 9:47-57(2002).
Heilig R.,et al.Nature 421:601-607(2003).
Belham C.,et al.J. Biol. Chem. 278:34897-34909(2003).