



Rabbit Anti-NEK3 antibody

SL6261R

Product Name:	NEK3
Chinese Name:	丝氨酸/苏氨酸蛋白激酶Nek3抗体
Alias:	HSPK 36; HSPK36; HSPK-36; NEK3; NEK 3; NEK-3; NEK3_HUMAN; Never in mitosis A-related kinase 3; NIMA (never in mitosis gene a) related kinase 3; NimA related protein kinase 3; NimA-related protein kinase 3; Serine/threonine protein kinase Nek3; Serine/threonine-protein kinase Nek3.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	58kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human NEK3:165-265/506
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes a member of the NimA (never in mitosis A) family of serine/threonine protein kinases. The encoded protein differs from other NimA family members in that it is not cell cycle regulated and is found primarily in the cytoplasm. The kinase is activated by prolactin stimulation, leading to phosphorylation of VAV2

guanine nucleotide exchange factor, paxillin, and activation of the RAC1 GTPase. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar2009].

Function:

Protein kinase which influences neuronal morphogenesis and polarity through effects on microtubules. Regulates microtubule acetylation in neurons. Contributes to prolactin-mediated phosphorylation of PXN and VAV2. Implicated in prolactin-mediated cytoskeletal reorganization and motility of breast cancer cells through mechanisms involving RAC1 activation and phosphorylation of PXN and VAV2.

Subunit:

Interacts with PXN, PRLR, VAV1 and VAV2 and this interaction is prolactin-dependent.

Subcellular Location:

Cytoplasm (By similarity). Cell projection, axon (By similarity).

Tissue Specificity:

Up-regulated in malignant versus normal breast tissue. Isoform 2 shows a high level of expression in testis, ovary and brain.

Post-translational modifications:

Phosphorylation at Thr-479 regulates its catalytic activity (By similarity).

Similarity:

Belongs to the protein kinase superfamily. NEK Ser/Thr protein kinase family. NIMA subfamily.

Contains 1 protein kinase domain.

SWISS:

P51956

Gene ID:

4752

Database links:

[Entrez Gene: 4752](#)Human

[Entrez Gene: 23954](#)Mouse

[Entrez Gene: 306576](#)Rat

[Omim: 604044](#)Human

[SwissProt: P51956](#)Human

[SwissProt: Q9R0A5](#)Mouse

[Unigene: 409989](#)Human

[Unigene: 41413](#)Mouse

[Unigene: 45730](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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