SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-NEK3 antibody

Catalog Number: SL6261R

FOR RESEARCH USE ONLY

[DATASHEET]

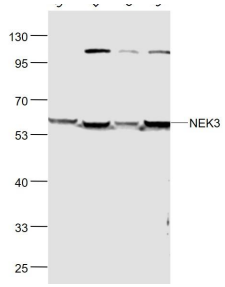
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	NEK3
Immunogen:	KLH conjugated synthetic peptide derived from human NEK3: 165-265/506
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Pig,Cow,Horse,Rabbit)
Predicted MW.:	58kDa
Subcellular Location:	cytoplasmic
Background:	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.

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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	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. **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

[VALIDATION IMAGES]



Sample:
Small intestine (Mouse) Lysate at 40 ug
Large intestine (Mouse) Lysate at 40 ug
Urinary bladder (Mouse) Lysate at 40 ug
Stomach (Mouse) Lysate at 40 ug
Primary: Anti-NEK3 (SL6261R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 58 kD
Observed band size: 58 kD

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