

NEK6 Antibody
Rabbit mAb
Catalog # AP92262

Specification

NEK6 Antibody - Product Information

Application	WB, IP
Primary Accession	O9HC98
Reactivity	Rat
Clonality	Monoclonal
Other Names	
NEK6; NimA related protein kinase 6; SID61512;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	35714 Da

NEK6 Antibody - Additional Information

Dilution	WB~~1:1000 IP~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human NEK6
Description	Activated during M phase. Required for chromosome segregation at metaphase-anaphase transition and therefore for mitotic progression. Inhibition of activity results in apoptosis. Phosphorylates KIF11 to promote mitotic spindle formation.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

NEK6 Antibody - Protein Information

Name NEK6 ([HGNC:7749](#))

Function

Protein kinase which plays an important role in mitotic cell cycle progression (PubMed: [11516946](http://www.uniprot.org/citations/11516946)), PubMed: [14563848](http://www.uniprot.org/citations/14563848)). Required for chromosome segregation at metaphase-anaphase transition, robust mitotic spindle formation and cytokinesis (PubMed: [19414596](http://www.uniprot.org/citations/19414596)). Phosphorylates ATF4, CIRSR, PTN, RAD26L, RBBP6, RPS7, RPS6KB1, TRIP4, STAT3 and histones H1 and H3 (PubMed: [19414596](#)).

[12054534](http://www.uniprot.org/citations/12054534), PubMed:<[20873783](http://www.uniprot.org/citations/20873783)>). Phosphorylates KIF11 to promote mitotic spindle formation (PubMed:<[19001501](http://www.uniprot.org/citations/19001501)>). Involved in G2/M phase cell cycle arrest induced by DNA damage (PubMed:<[18728393](http://www.uniprot.org/citations/18728393)>). Inhibition of activity results in apoptosis. May contribute to tumorigenesis by suppressing p53/TP53-induced cancer cell senescence (PubMed:<[21099361](http://www.uniprot.org/citations/21099361)>). Phosphorylates EML4 at 'Ser-144', promoting its dissociation from microtubules during mitosis which is required for efficient chromosome congression (PubMed:<[31409757](http://www.uniprot.org/citations/31409757)>).

Cellular Location

Cytoplasm. Nucleus. Nucleus speckle. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle pole. Note=Colocalizes with APBB1 at the nuclear speckles. Colocalizes with PIN1 in the nucleus. Colocalizes with ATF4, CIRSR, ARHGAP33, ANKRA2, CDC42, NEK9, RAD26L, RBBP6, RPS7, TRIP4, RELB and PHF1 in the centrosome. Localizes to spindle microtubules in metaphase and anaphase and to the midbody during cytokinesis

Tissue Location

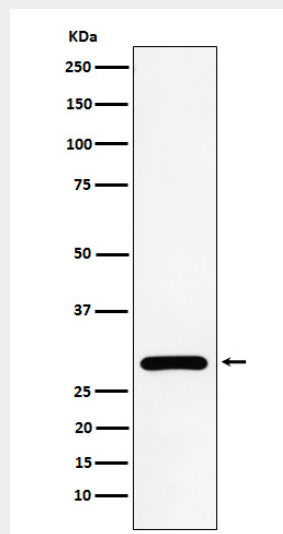
Ubiquitous, with highest expression in heart and skeletal muscle.

NEK6 Antibody - 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](#)

NEK6 Antibody - Images



Western blot analysis of NEK6 expression in HeLa cell lysate.