10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Nek6 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13926b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9ES70
Other Accession	P59895, A2BD05, Q9HC98, NP_001153103.1, NP_067619.1
Reactivity	Human, Mouse
Predicted	Rat, Pig, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34648
Calculated MW	35742
Antigen Region	251-280

Additional Information

Gene ID	59126
Other Names	Serine/threonine-protein kinase Nek6, Never in mitosis A-related kinase 6, NimA-related protein kinase 6, Nek6
Target/Specificity	This Mouse Nek6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 251-280 amino acids from the C-terminal region of mouse Nek6.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Mouse Nek6 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Nek6 {ECO:0000312|MGI:MGI:1891638}
Function	Protein kinase which plays an important role in mitotic cell cycle progression. Required for chromosome segregation at metaphase- anaphase

	transition, robust mitotic spindle formation and cytokinesis. Phosphorylates ATF4, CIRSR, PTN, RAD26L, RBBP6, RPS7, TRIP4, RPS6KB1 and histones H1 and H3. Phosphorylates KIF11 to promote mitotic spindle formation. Involved in G2/M phase cell cycle arrest induced by DNA damage. Inhibition of activity results in apoptosis. May contribute to tumorigenesis by suppressing p53/TP53-induced cancer cell senescence (By similarity). Phosphorylates STAT3 (PubMed:20595392). Phosphorylates EML4 at 'Ser-144', promoting its dissociation from microtubules during mitosis which is required for efficient chromosome congression (By similarity).
Cellular Location	Cytoplasm. Nucleus. Nucleus speckle. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle pole. Note=Co- localizes 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 (By similarity)
Tissue Location	Highly expressed in the liver.

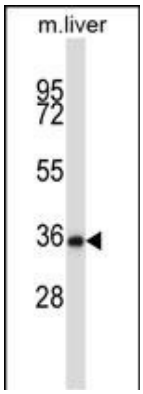
Background

Activated during M phase. Required for chromosome segregation at metaphase-anaphase transition and therefore for mitotic progression. Inhibition of activity results in apoptosis (By similarity).

References

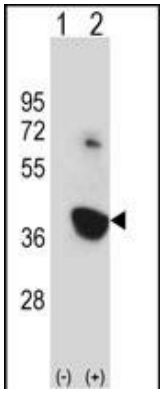
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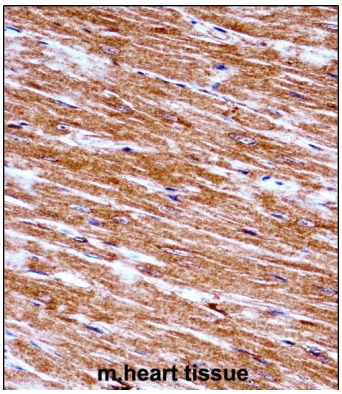
Images



Mouse Nek6 Antibody (C-term) (Cat. #AP13926b) western blot analysis in mouse liver tissue lysates (35ug/lane).This demonstrates the Nek6 antibody detected the Nek6 protein (arrow).

Western blot analysis of Nek6 (arrow) using rabbit polyclonal Mouse Nek6 Antibody (C-term) (Cat. #AP13926b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the Nek6 gene.





Mouse Nek6 Antibody (C-term) (AP13926b)immunohistochemistry analysis in formalin fixed and paraffin embedded mouse heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of Mouse Nek6 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.