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NEK9 Rabbit mAb

Catalog # AP75794

Product Information

Application	WB, IHC-P, FC
Primary Accession	Q8TD19
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	107168

Additional Information

Gene ID	91754
Other Names	NEK9
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A FC~~1:10-1:100
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

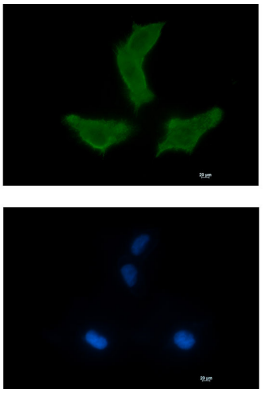
Name	NEK9 {ECO:0000303|PubMed:12840024, ECO:0000312|HGNC:HGNC:18591}
Function	Pleiotropic regulator of mitotic progression, participating in the control of spindle dynamics and chromosome separation (PubMed:12101123, PubMed:12840024, PubMed:14660563, PubMed:19941817). Phosphorylates different histones, myelin basic protein, beta-casein, and BICD2 (PubMed:11864968). Phosphorylates histone H3 on serine and threonine residues and beta-casein on serine residues (PubMed: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

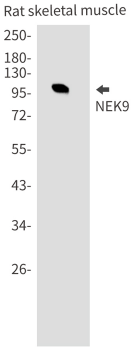
Background

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.

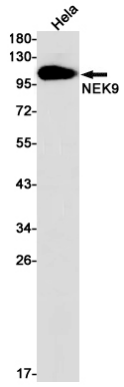
Images



Immunocytochemistry analysis of NEK9 (green) in HT-1080 using NEK9 antibody,and DAPI(blue).

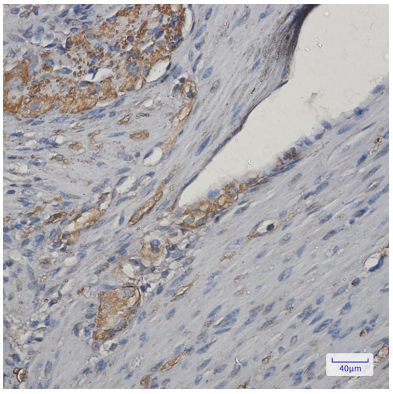


Western blot analysis of NEK9 in rat skeletal muscle lysates using NEK9 antibody.



Western blot analysis of NEK9 in Hela lysates using NEK9 antibody

Immunohistochemistry analysis of paraffin-embedded Human colon cancer using NEK9 antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



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