



Nek7 Polyclonal Antibody

Catalog No	YP-Ab-14877
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	NEK7
Immunogen	The antiserum was produced against synthesized peptide derived from human NEK7. AA range:101-150
Specificity	Nek7 Polyclonal Antibody detects endogenous levels of Nek7 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	NimA related protein kinase 7;Nek7;Serine/threonine-protein kinase Nek7;Never in mitosis A-related kinase 7;NimA-related protein kinase 7
Observed Band	35kD
Calculated Molecular Weight	35kD
Cell Pathway	Nucleus . Cytoplasm . Cytoplasm, cytoskeleton, spindle pole . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Present at centrosome throughout the cell cycle (PubMed:17586473). Also detected at spindle midzone of the anaphase cells and eventually concentrates at the midbody (PubMed:17586473). Interaction with ANKS3 prevents its translocation to the nucleus (By similarity). .
Tissue Specificity	Highly expressed in lung, muscle, testis, brain, heart, liver, leukocyte and spleen. Lower expression in ovary, prostate and kidney. No expression seen in small intestine.
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein., cofactor:Magnesium.,similarity:Belongs to the protein kinase superfamily., similarity:Belongs to the protein kinase superfamily. NEK Ser/Thr protein kinase family. NIMA subfamily.,similarity:Contains 1 protein kinase domain.,tissue specificity:Highly expressed in lung, muscle, testis, brain, heart, liver, leukocyte



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Background

NIMA-related kinases share high amino acid sequence identity with the gene product of the *Aspergillus nidulans* 'never in mitosis A' gene, which controls initiation of mitosis.[supplied by OMIM, Jul 2002],

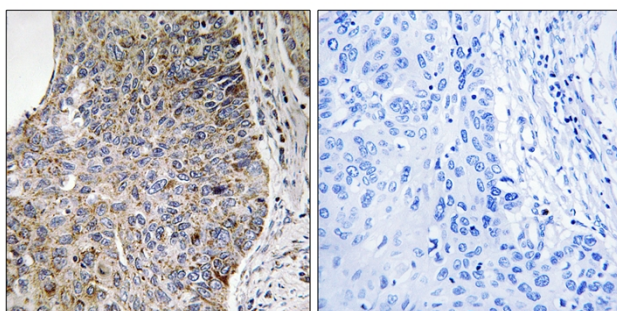
matters needing attention

Avoid repeated freezing and thawing!

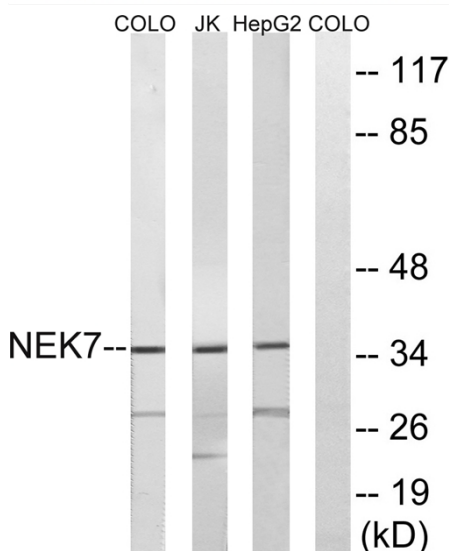
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using NEK7 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HepG2, Jurkat, and COLO cells, using NEK7 Antibody. The lane on the right is blocked with the synthesized peptide.