



# Nek7 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-14877
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	NEK7
<b>Protein Name</b>	Serine/threonine-protein kinase Nek7
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human NEK7. AA range:101-150
<b>Specificity</b>	Nek7 Polyclonal Antibody detects endogenous levels of Nek7 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	NEK7; Serine/threonine-protein kinase Nek7; Never in mitosis A-related kinase 7; NimA-related protein kinase 7
<b>Observed Band</b>	35kD
<b>Cell Pathway</b>	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). .
<b>Tissue Specificity</b>	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.
<b>Function</b>	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 and spleen. Lower expression in ovary, prostate and kidney. No expression seen in small intestine.,



## 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],

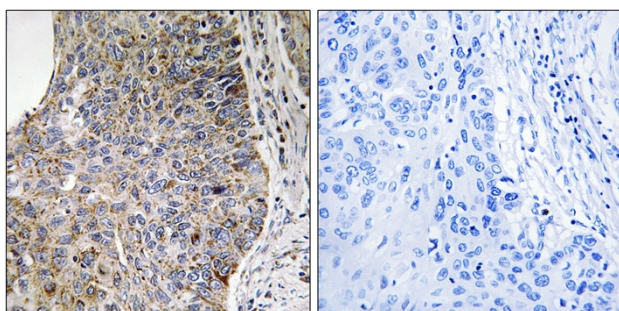
## matters needing attention

Avoid repeated freezing and thawing!

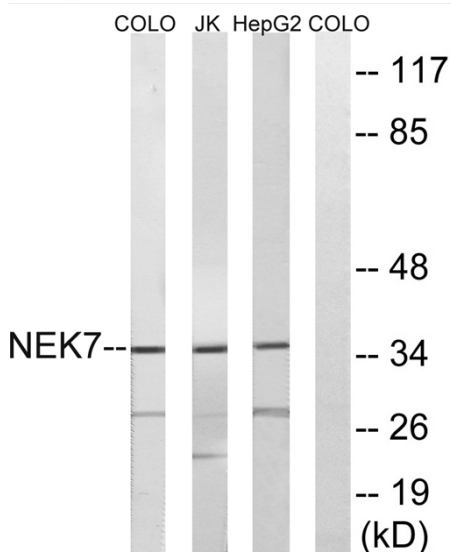
## Usage suggestions

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.