

Rabbit anti-Human, Mouse NEK7 Polyclonal Antibody | anti-NEK7 antibody

NEK7 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325117	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

NEK7; Polyclonal Antibody; NEK7 Antibody; EC 2.7.11.1; NEK7_HUMAN; Never in mitosis A-related kinase 7; Never in mitosis gene a-related kinase 7; NIMA (never in mitosis gene a) related kinase 7; NIMA (never in mitosis gene a)-related expressed kinase 7; NimA related protein kinase 7; NIMA-related kinase 7; NimA-related protein kinase 7; Serine/threonine-protein kinase Nek7; anti-NEK7 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	NEK7 antibody detects endogenous levels of total NEK7
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	302
Applicable Applications for anti-NEK7 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm.
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.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA325117 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA325117 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from COLO cells using NEK7 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-NEK7 antibody

Function: Protein kinase which plays an important role in mitotic cell cycle progression. Required for microtubule nucleation activity of the centrosome, robust mitotic spindle formation and cytokinesis. Phosphorylates RPS6KB1. Subunit Structure: Monomer. Interacts with NEK9.
Post-translational Modifications: Phosphorylation at Ser-195 required for its activation.
Similarity: Displays an autoinhibited conformation: Tyr-97 side chain points into the active site, interacts with the activation loop, and blocks the alphaC helix. The autoinhibitory conformation is released upon binding with NEK9. The NTE (N-terminal extension) motif is a structural component of the catalytic domain and thus contributes to activity. Belongs to the protein kinase superfamily. NEK Ser/Thr protein kinase family. NIMA subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19424132
NCBI GeneID	140609
NCBI Accession #	NP_598001.1
NCBI GenBank Nucleotide #	NM_133494.2
UniProt Accession #	Q8TDX7; A6NGT8
Molecular Weight	Observed: 35 kD Predicted: 35 kDa
NCBI Official Full Name	serine/threonine-protein kinase Nek7
NCBI Official Synonym Full Names	NIMA related kinase 7
NCBI Official Symbol	NEK7
NCBI Protein Information	serine/threonine-protein kinase Nek7
UniProt Protein Name	Serine/threonine-protein kinase Nek7
UniProt Gene Name	NEK7
UniProt Synonym Gene Names	NimA-related protein kinase 7

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.