

Rabbit anti-Human NEK2 Polyclonal Antibody | anti-NEK2 antibody

NEK2 Antibody (Center)

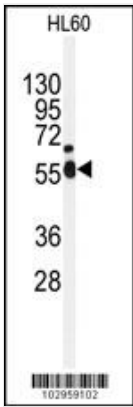
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28694	Rabbit	Human	Western Blot, ELISA, Immunofluorescence, Immunohistochemistry

PRODUCT SYNONYMS

NEK2; Polyclonal Antibody; NEK2 Antibody (Center); Serine/threonine-protein kinase Nek2; HSPK 21; Never in mitosis A-related kinase 2; NimA-related protein kinase 2; NimA-like protein kinase 1; NEK2A; NLK1; anti-NEK2 antibody

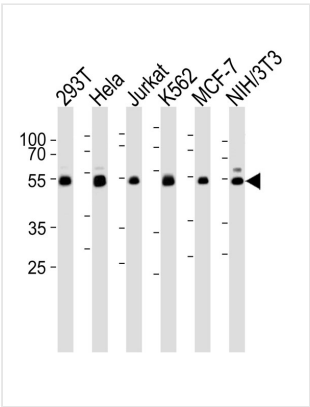
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This NEK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 396-426 amino acids from the Central region of human NEK2.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	396-426
Sequence Length	388
Applicable Applications for anti-NEK2 antibody	WB (Western Blot), ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry)
Application Notes	IF~~1:25 IHC~~1:100 WB~~1:1000
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



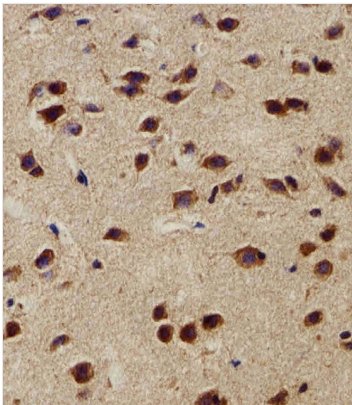
WB (Western Blot)

Western blot analysis of anti-NEK2 Antibody (Center) in HL60 cell line lysates (35ug/lane). NEK2(arrow) was detected using the purified Pab.



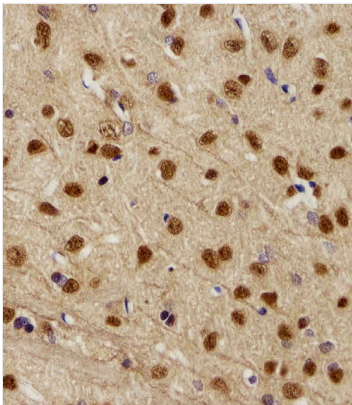
WB (Western Blot)

Western blot analysis of lysates from 293T, HeLa, Jurkat, K562, MCF-7, and mouse NIH/3T3 cell line (from left to right), using NEK2 Antibody (C410). AAA28694 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



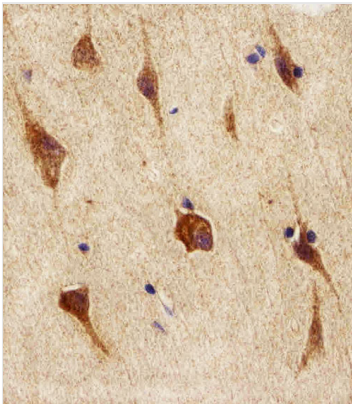
IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded M. brain section using NEK2 Antibody(Center). AAA28694 was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



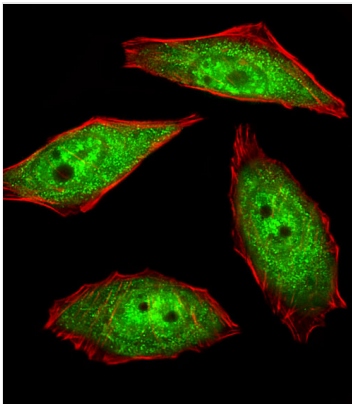
IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded R. brain section using NEK2 Antibody(Center). AAA28694 was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded H. brain section using NEK2 Antibody(Center). AAA28694 was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



IF (Immunofluorescence)

Fluorescent image of U251 cells stained with hNEK2-C410. AAA28694 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor 555 conjugated with Phalloidin (red).

ADDITIONAL INFORMATION

Related Product Information for anti-NEK2 antibody	Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the γ phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The STE group (homologs of yeast Sterile 7, 11, 20 kinases) consists of 50 kinases related to the mitogen-activated protein kinase (MAPK) cascade families (Ste7/MAP2K, Ste11/MAP3K, and Ste20/MAP4K). MAP kinase cascades, consisting of a MAPK and one or more upstream regulatory kinases (MAPKKs) have been best characterized in the yeast pheromone response pathway. Pheromones bind to Ste cell surface receptors and activate yeast MAPK pathway.
Product Categories/Family for anti-NEK2 antibody	Crown Antibodies; Cancer; Cell Biology; Signal Transduction
References	Chen, Y., et al., J. Biol. Chem. 277(51):49408-49416 (2002). Eto, M., et al., J. Biol. Chem. 277(46):44013-44020 (2002). Schutte, B.C., et al., Genome Res. 10(1):81-94 (2000). Fry, A.M., et al., EMBO J. 17(2):470-481 (1998). Schultz, S.J., et al., Cell Growth Differ. 5(6):625-635 (1994).

NCBI AND UNIPROT INFORMATION

NCBI GI #	323510688
NCBI GeneID	4751
NCBI Accession #	NP_001191111.1; NP_001191112.1; NP_002488.1
NCBI GenBank Nucleotide #	NM_001204182.1
UniProt Accession #	P51955; Q53FD6; Q5I1Z9; Q5VXZ1; Q6NZX8; Q7Z634; Q86XH2; Q96QN9
Molecular Weight	51763
NCBI Official Full Name	serine/threonine-protein kinase Nek2 isoform 3
NCBI Official Synonym Full Names	NIMA-related kinase 2
NCBI Official Symbol	NEK2
NCBI Official Synonym Symbols	NLK1; RP67; NEK2A; HsPK21; PPP1R111
NCBI Protein Information	serine/threonine-protein kinase Nek2
UniProt Protein Name	Serine/threonine-protein kinase Nek2
UniProt Gene Name	NEK2
UniProt Synonym Gene Names	NEK2A; NLK1; NimA-related protein kinase 2
UniProt Entry Name	NEK2_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/nek2-antibody-western-blot-immunofluorescence-immunohistochemistry-elisa/28694>