

Rabbit NEK2 Polyclonal Antibody | anti-NEK2 antibody

Phospho-NEK2 (Ser171) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328257	Rabbit	Human, Mouse, Rat	Immunofluorescence, ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

NEK2; Polyclonal Antibody; Phospho-NEK2 (Ser171) Antibody; HSPK 21; HsPK21; NEK 2; NEK2_HUMAN; NEK2A; Never in mitosis A-related kinase 2; NIMA (never in mitosis gene a) related kinase 2; NimA like protein kinase 1; NIMA related kinase 2; NimA related protein kinase 2; NimA-like protein kinase 1; NimA-related protein kinase 2; NLK 1; NLK1; Serine/threonine-protein kinase Nek2; anti-NEK2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-NEK2 (Ser171) Antibody detects endogenous levels of NEK2 only when phosphorylated at Ser171.
Purity/Purification	Peptide affinity purification
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	445
Applicable Applications for anti-NEK2 antibody	IF (Immunofluorescence), ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human NEK2 around the phosphorylation site of Ser171.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from K562, using Phospho-NEK2(Ser171) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.



IHC (Immunohistochemistry)

At 1/100 staining mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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)

AAA328257 staining Hela cells(4h of LPS treatment) by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% TritonX-100,then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA328257 1:200)and mouse anti-beta tubulin Ab(1:200) for 1 hour at37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L)Ab(Red) and an AlexaFluor488 conjugated goat anti-mouseIgG(H+L) Ab(Green) were used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-NEK2 antibody	Protein kinase which is involved in the control of centrosome separation and bipolar spindle formation in mitotic cells and chromatin condensation in meiotic cells. Regulates centrosome separation (essential for the formation of bipolar spindles and high-fidelity chromosome separation) by phosphorylating centrosomal proteins such as CROCC, CEP250 and NINL, resulting in their displacement from the centrosomes. Regulates kinetochore microtubule attachment stability in mitosis via phosphorylation of NDC80. Involved in regulation of mitotic checkpoint protein complex via phosphorylation of CDC20 and MAD2L1. Plays an active role in chromatin condensation during the first meiotic division through phosphorylation of HMGA2. Phosphorylates: PPP1CC; SGO1; NECAB3 and NPM1.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4505373
NCBI GeneID	4751
NCBI Accession #	NP_002488.1
NCBI GenBank Nucleotide #	NP_002488.1
UniProt Accession #	P51955
Molecular Weight	51 kDa
NCBI Official Full Name	serine/threonine-protein kinase Nek2 isoform 1
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; NimaA-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-immunofluorescence-peptide-elisa-immunohistochemistry-western-blot-elisa/328257>