

Rabbit anti-Human NEK6 Polyclonal Antibody | anti-NEK6 antibody

Anti-NEK6 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127197	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

NEK6; Polyclonal Antibody; Anti-NEK6 Antibody Picoband; SET domain containing 1A; histone lysine methyltransferase; Histone-lysine N-methyltransferase SETD1A; Lysine N-methyltransferase 2F; SET domain-containing protein 1A; Hset1a; Set1/Ash2 histone methyltransferase complex subunit SET1; SETD1A; KIAA0339; KMT2F; SET1; SET1A; anti-NEK6 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-NEK6 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human NEK6 recombinant protein (Position: N16-T313).
Subcellular Localization	Nucleus speckle. Chromosome
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Histone methyltransferase that specifically methylates 'Lys-4' of histone H3, when part of the SET1 histone methyltransferase (HMT) complex, but not if the neighboring 'Lys-9' residue is already methylated. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. The non-overlapping localization with SETD1B suggests that SETD1A and SETD1B make non-redundant contributions to the epigenetic control of chromatin structure and gene expression.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of HepG2 cells using anti-NEK6 antibody (AAA127197).Overlay histogram showing HepG2 cells stained with AAA127197 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NEK6 Antibody (AAA127197, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of NEK6 using anti-NEK6 antibody (AAA127197).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human HepG2 whole cell lysates,Lane 2: human Hela whole cell lysates,Lane 3: human 293T whole cell lysates,Lane 4: human HT-1080 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NEK6 antigen affinity purified polyclonal antibody (#AAA127197) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NEK6 at approximately 45 kDa. The expected band size for NEK6 is at 36-45 kDa.



IF (Immunofluorescence)
Figure 2. IF analysis of NEK6 using anti-NEK6 antibody (AAA127197).NEK6 was detected in an immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-NEK6 Antibody (AAA127197) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-NEK6 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-NEK6 antibody	Primary Antibodies; Calcium Binding Proteins; Calcium Signaling; Cell Adhesion; Cytoskeleton/ECM; Signal Transduction; Signaling Pathway
References	1. Kimura, M., Okano, Y. Identification and assignment of the human NIMA-related protein kinase 7 gene (NEK7) to human chromosome 1q31.3. Cytogenet. Cell Genet. 94: 33-38, 2001. 2. Li, M. Z., Yu, L., Liu, Q., Chu, J. Y., Zhao, S. Y. Assignment of NEK6, a NIMA-related gene, to human chromosome 9q33.3-q34.11 by radiation hybrid mapping. Cytogenet. Cell Genet. 87: 271-272, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19923407
NCBI GeneID	10783
NCBI Accession #	NP_055212.2
NCBI GenBank Nucleotide #	NM_014397.5
UniProt Accession #	Q9HC98; Q5TBG3; Q5TBG9; Q6FG86; Q6IAR3; Q96E83; Q9ULX2; B7Z2D9
Molecular Weight	38,460 Da
NCBI Official Full Name	serine/threonine-protein kinase Nek6 isoform 2

NCBI Official Synonym Full Names	NIMA-related kinase 6
NCBI Official Symbol	NEK6
NCBI Official Synonym Symbols	SID6-1512
NCBI Protein Information	serine/threonine-protein kinase Nek6; protein kinase SID6-1512; nimA-related protein kinase 6; never in mitosis A-related kinase 6; putative serine-threonine protein kinase; NIMA (never in mitosis gene a)-related kinase 6
UniProt Protein Name	Serine/threonine-protein kinase Nek6
UniProt Gene Name	NEK6
UniProt Synonym Gene Names	NimA-related protein kinase 6
UniProt Entry Name	NEK6_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/nek6-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127197>