

Rabbit NEK8 Polyclonal Antibody | anti-NEK8 antibody

NEK8 Antibody

CATALOG # AAA325948	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

NEK8; Polyclonal Antibody; NEK8 Antibody; JCK; NEK 8; NEK12A; NEK8_HUMAN; Nephrocystin 9; Never in mitosis A-related kinase 8; NIMA (never in mitosis gene a) related kinase 8; NIMA related kinase 8; NIMA-family kinase NEK8; NIMA-related kinase 12a; Nima-related protein kinase 12a; NimA-related protein kinase 8; NPHP9; Serine/threonine-protein kinase Nek8; anti-NEK8 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	NEK8 antibody detects endogenous levels of total NEK8
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	692
Applicable Applications for anti-NEK8 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human NEK8
Subcellular Location	Cytoplasm. Predominantly Cytoplasmic.
Tissue Specificity	Highest expression in thyroid, adrenal gland and skin. Low levels in spleen, colon and uterus. Overexpressed in breast tumors, with highest expression in infiltrating ductal carcinomas and moderate levels in mucinous adenocarcinoma.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (89%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Chicken (89%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Hela whole cell lysates, using NEK8 Antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA325948 at 1/100 staining Mouse colon 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.

ADDITIONAL INFORMATION

Related Product Information for anti-NEK8 antibody

Description: This gene encodes a member of the serine/threonine protein kinase family related to NIMA (never in mitosis, gene A) of *Aspergillus nidulans*. The encoded protein may play a role in cell cycle progression from G2 to M phase. Mutations in the related mouse gene are associated with a disease phenotype that closely parallels the juvenile autosomal recessive form of polycystic kidney disease in humans. [provided by RefSeq, Jul 2008]
Function: Required for renal tubular integrity. May regulate local cytoskeletal structure in kidney tubule epithelial cells. May regulate ciliary biogenesis through targeting of proteins to the cilia (By similarity). Plays a role in organogenesis and is involved in the regulation of the Hippo signaling pathway.
Subunit Structure: Interacts with PKD2; may regulate PKD2 targeting to the cilium (By similarity). Component of a complex containing at least ANKS6, INVS, NEK8 and NPHP3. ANKS6 may organize complex assembly by linking INVS and NPHP3 to NEK8 and INVS may target the complex to the proximal ciliary axoneme. Interacts with ANKS3 (By similarity).
Similarity: Belongs to the protein kinase superfamily. NEK Ser/Thr protein kinase family. NIMA subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	30039692
NCBI GeneID	284086
NCBI Accession #	NP_835464.1
NCBI GenBank Nucleotide #	NM_178170.3
UniProt Accession #	Q86SG6; Q14CL7; Q2M1S6; Q8NDH1; A6NIC5
Molecular Weight	Observed: 75 kDa Predicted: 75 kDa
NCBI Official Full Name	serine/threonine-protein kinase Nek8
NCBI Official Synonym Full Names	NIMA related kinase 8
NCBI Official Symbol	NEK8
NCBI Official Synonym Symbols	JCK; NPHP9; RHPD2; NEK12A
NCBI Protein Information	serine/threonine-protein kinase Nek8
UniProt Protein Name	Serine/threonine-protein kinase Nek8
UniProt Gene Name	NEK8
UniProt Synonym Gene Names	JCK; NEK12A; NimA-related protein kinase 8

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.