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NEK8 Rabbit pAb

Catalog # AP97615

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q86SG6
Other Accession	Q86SG6
Reactivity	Human
Predicted	Rat, Mouse, Chicken, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	74806
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NEK8
Epitope Specificity	101-200/692
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the protein kinase superfamily. NEK Ser/Thrprotein kinase family. NIMA subfamily.Contains 1 protein kinase domain.Contains 5 RCC1 repeats.
SUBUNIT	Interacts with PKD2; may regulate PKD2 targeting to thecilium (By similarity).
DISEASE	Defects in NEK8 are the cause of nephronophthisis type 9(NPHP9) [MIM:613824]. NPHP9 is an autosomal recessive disorderresulting in end-stage renal disease. It is a progressivetubulo-interstitial kidney disorder histologically characterized bymodifications of the tubules with thickening of the basementmembrane, interstitial fibrosis and, in the advanced stages,medullary cysts.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Required for renal tubular integrity. 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.

Additional Information

Gene ID	284086
Other Names	JCK; NEK12A; NPHP9; PKD8; RHPD2; NEK8_HUMAN; NEK8; Never in mitosis A-related kinase 8 (NimA-related protein kinase 8); Nima-related protein kinase 12a; 2.7.11.1; NIMA related kinase 8; NIMA (never in mitosis gene a)-related kinase 8
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NEK8
Synonyms	JCK, NEK12A
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 (PubMed:37598857). Plays a role in organogenesis, and is involved in the regulation of the Hippo signaling pathway (PubMed:26967905).
Cellular Location	Cytoplasm. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q91ZR4}. Cell projection, cilium. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, cilium axoneme. Note=Predominantly cytoplasmic Localizes to the proximal region of the primary cilium and is not observed in dividing cells. {ECO:0000250|UniProtKB:Q91ZR4}
Tissue Location	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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.