

NEK8 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7095a**Specification**

NEK8 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q86SG6](#)**NEK8 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 284086**Other Names**

Serine/threonine-protein kinase Nek8, Never in mitosis A-related kinase 8, NimA-related protein kinase 8, Nima-related protein kinase 12a, NEK8, JCK, NEK12A

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7095a](/product/products/AP7095a) was selected from the N-term region of human NEK8. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NEK8 Antibody (N-term) Blocking Peptide - 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 (By similarity). Plays a role in organogenesis and is involved in the regulation of the Hippo signaling pathway.

Cellular Location

Cytoplasm. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q91ZR4}. Cell projection, cilium. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. 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

NEK8 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

NEK8 Antibody (N-term) Blocking Peptide - Images**NEK8 Antibody (N-term) Blocking Peptide - Background**

NEK8 is a NIMA-related kinase. Members of this serine/threonine protein kinase family are structurally-related to NIMA (never in mitosis, gene A) which controls mitotic signaling in *Aspergillus nidulans*. NEK8 highest expression occurs in adult heart, followed by pancreas, skeletal muscle, brain, liver, kidney, lung and placenta. NEK is required for renal tubular integrity, and is present in most primary carcinomas.