10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

NEK11S/L Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP8071c

Specification

NEK11S/L Antibody (Center) Blocking Peptide - Product Information

Primary Accession	Q8NG66
Other Accession	Q8NG65

NEK11S/L Antibody (Center) Blocking Peptide - Additional Information

Gene ID 79858

Other Names
Serine/threonine-protein kinase Nek11, Never in mitosis A-related kinase 11, NimA-related protein kinase 11, NEK11 (HGNC:18593)

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8071c was selected from the Center region of human NEK11S/L . 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.

NEK11S/L Antibody (Center) Blocking Peptide - Background

NEK11 belongs to the NIMA family of kinases, which are involved in DNA replication and genotoxic stress responses (Noguchi et al., 2002 [PubMed 12154088]).[supplied by OMIM]

NEK11S/L Antibody (Center) Blocking Peptide - References

Blume-Jensen P, et al. Nature 2001. 411: 355.Cantrell D, J. Cell Sci. 2001. 114: 1439.Jhiang S Oncogene 2000. 19: 5590.Manning G, et al. Science 2002. 298: 1912.Moller, D, et al. Am. J. Physiol. 1994. 266: C351-C359.Robertson, S. et al. Trends Genet. 2000. 16: 368.Robinson D, et al. Oncogene 2000. 19: 5548.Van der Ven, P, et al. Hum. Molec. Genet. 1993. 2: 1889.Vanhaesebroeck, B, et al. Biochem. J. 2000. 346: 561.Van Weering D, et al. Recent Results Cancer Res. 1998. 154: 271.

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Protein Information

Name NEK11 (HGNC:18593)

Function
Protein kinase which plays an important role in the G2/M checkpoint response to DNA damage. Controls degradation of CDC25A by directly phosphorylating it on residues whose phosphorylation is required for BTRC-mediated polyubiquitination and degradation.

Cellular Location
Nucleus. Nucleus, nucleolus. Note=Nuclear during interphase but moves to the polar microtubules during prometaphase and metaphase (PubMed:12154088). Accumulates in the nucleolus in G1/S-arrested cells (PubMed:15161910).

Tissue Location
Poorly expressed in cerebellum, trachea, lung, appendix, and uterus.

NEK11S/L Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides