

CE164 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP10981a

Specification

CE164 Antibody (N-term) Blocking peptide - Product Information

Primary Accession [Q9UPV0](#)

CE164 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 22897

Other Names

Centrosomal protein of 164 kDa, Cep164, CEP164, KIAA1052, NPHP15

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.

CE164 Antibody (N-term) Blocking peptide - Protein Information

Name CEP164

Synonyms KIAA1052, NPHP15

Function

Plays a role in microtubule organization and/or maintenance for the formation of primary cilia (PC), a microtubule-based structure that protrudes from the surface of epithelial cells. Plays a critical role in G2/M checkpoint and nuclear divisions. A key player in the DNA damage-activated ATR/ATM signaling cascade since it is required for the proper phosphorylation of H2AX, RPA, CHEK2 and CHEK1. Plays a critical role in chromosome segregation, acting as a mediator required for the maintenance of genomic stability through modulation of MDC1, RPA and CHEK1.

Cellular Location

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole. Nucleus
Note=Localizes specifically to very distally located appendage structures on the mature centriole from which initiate PC formation (PubMed:26337392). Persisted at centrioles throughout mitosis
Expressed in chromatin-enriched nuclear fraction of HeLa cells. In response to DNA damage, it translocates to nuclear foci that contain the DNA damage response proteins KAT5/TIP60 and CHEK1

Tissue Location

Expressed in several cell lines.

CE164 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

CE164 Antibody (N-term) Blocking peptide - Images

CE164 Antibody (N-term) Blocking peptide - Background

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CE164 Antibody (N-term) Blocking peptide - References

Pan, Y.R., et al. Cell Cycle 8(4):655-664(2009)Sivasubramaniam, S., et al. Genes Dev. 22(5):587-600(2008)Graser, S., et al. J. Cell Biol. 179(2):321-330(2007)Petretti, C., et al. EMBO Rep. 7(4):418-424(2006)Zick, A., et al. Nucleic Acids Res. 33(13):4235-4242(2005)