

CDC14A Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP17213b**Specification**

CDC14A Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9UNH5](#)**CDC14A Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 8556**Other Names**

Dual specificity protein phosphatase CDC14A, CDC14 cell division cycle 14 homolog A, CDC14A

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.

CDC14A Antibody (C-term) Blocking Peptide - Protein Information**Name** CDC14A**Function**

Dual-specificity phosphatase. Required for centrosome separation and productive cytokinesis during cell division. Dephosphorylates SIRT2 around early anaphase. May dephosphorylate the APC subunit FZR1/CDH1, thereby promoting APC-FZR1 dependent degradation of mitotic cyclins and subsequent exit from mitosis. Required for normal hearing (PubMed:29293958).

Cellular Location

Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle pole. Cytoplasm, cytoskeleton, spindle. Cell projection, kinocilium {ECO:0000250|UniProtKB:Q6GQT0}. Cell projection, stereocilium {ECO:0000250|UniProtKB:Q6GQT0}. Note=Centrosomal during interphase, released into the cytoplasm at the onset of mitosis. Subsequently localizes to the mitotic spindle pole and at the central spindle (PubMed:12134069, PubMed:11901424, PubMed:15263015). Present along both the transient kinocilia of developing cochlear hair cells and the persistent kinocilia of vestibular hair cells (By similarity) {ECO:0000250|UniProtKB:Q6GQT0, ECO:0000269|PubMed:11901424, ECO:0000269|PubMed:12134069, ECO:0000269|PubMed:15263015}

CDC14A Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CDC14A Antibody (C-term) Blocking Peptide - Images

CDC14A Antibody (C-term) Blocking Peptide - Background

The protein encoded by this gene is a member of the dualspecificity protein tyrosine phosphatase family. It is highly similar to *Saccharomyces cerevisiae* Cdc14, a protein tyrosine phosphatase involved in the exit of cell mitosis and initiation of DNA replication, suggesting a role in cell cycle control. This protein has been shown to interact with, and dephosphorylate tumor suppressor protein p53, and is thought to regulate the function of p53. Alternative splicing of this gene results in several transcript variants encoding distinct isoforms. [provided by RefSeq].

CDC14A Antibody (C-term) Blocking Peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Olson, J.E., et al. Breast Cancer Res. Treat. (2010) In press :Mocciaro, A., et al. J. Cell Biol. 189(4):631-639(2010) Song, S.Y., et al. APMIS 118(5):389-393(2010) Chen, J.S., et al. Biotechnol. Lett. 31(5):615-621(2009)