

CDK10 Antibody (N-term R5) Blocking Peptide
Synthetic peptide
Catalog # BP7121a**Specification**

CDK10 Antibody (N-term R5) Blocking Peptide - Product InformationPrimary Accession [Q15131](#)**CDK10 Antibody (N-term R5) Blocking Peptide - Additional Information****Gene ID** 8558**Other Names**

Cyclin-dependent kinase 10, Cell division protein kinase 10, Serine/threonine-protein kinase PISSLRE, CDK10

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7121a](/product/products/AP7121a) was selected from the N-term region of human CDK10. 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.

CDK10 Antibody (N-term R5) Blocking Peptide - Protein Information**Name** CDK10**Function**

Cyclin-dependent kinase that phosphorylates the transcription factor ETS2 (in vitro) and positively controls its proteasomal degradation (in cells) (PubMed: [24218572](http://www.uniprot.org/citations/24218572)). Involved in the regulation of actin cytoskeleton organization through the phosphorylation of actin dynamics regulators such as PKN2. Is a negative regulator of ciliogenesis through phosphorylation of PKN2 and promotion of RhoA signaling (PubMed: [27104747](http://www.uniprot.org/citations/27104747)).

Cellular Location

Cytoplasm, cytoskeleton, cilium basal body

CDK10 Antibody (N-term R5) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CDK10 Antibody (N-term R5) Blocking Peptide - Images

CDK10 Antibody (N-term R5) Blocking Peptide - Background

CDK10 belongs to the CDK subfamily of the Ser/Thr protein kinase family. The CDK subfamily members are highly similar to the gene products of *S. cerevisiae* cdc28, and *S. pombe* cdc2, and are known to be essential for cell cycle progression. This kinase has been shown to play a role in cellular proliferation. Its function is limited to cell cycle G2-M phase.

CDK10 Antibody (N-term R5) Blocking Peptide - References

Kasten, M., et al., *Oncogene* 20(15):1832-1838 (2001).Sergere, J.C., et al., *Biochem. Biophys. Res. Commun.* 276(1):271-277 (2000).Crawford, J., et al., *Genomics* 56(1):90-97 (1999).Bullrich, F., et al., *Cancer Res.* 55(6):1199-1205 (1995).Li, S., et al., *Cancer Res.* 55(18):3992-3995 (1995).