

CDK10 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7516a**Specification**

CDK10 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q15131](#)**CDK10 Antibody (N-term) 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 [AP7516a](/product/products/AP7516a) 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) 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CDK10 Antibody (N-term) Blocking Peptide - Images

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

Crawford, J., et al., Genomics 56(1):90-97 (1999).Brambilla, R., et al., Oncogene 9(10):3037-3041 (1994).Grana, X., et al., Oncogene 9(7):2097-2103 (1994).Morgan, D. O. Annu. Rev. Cell Dev. Biol. 13, 261 (1997)Sherr, C. Science 274:1672 (1996)Kamb A. TIG 11:136 (1995)Zhang, H. et al, Cell 82, 915 (1995)Parge, HE. et al., Science 262, 387 (1993)Hershko, A. et al., Ann. Rev. Biochem. 61, 761 (1992)Peters, JM. Curr. Biol. 10, 759 (1998)Skowyra, D. et al., Cell 91, 209 (1997)Ganoth D. et al., Nature Cell Biol. 3, 321-324 (2001)