

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

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**CDK10 Antibody (N-term) Blocking Peptide - Product Information**Primary 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)