

**CDK3 Antibody (N-term Y19) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7519a****Specification**

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**CDK3 Antibody (N-term Y19) Blocking Peptide - Product Information**Primary Accession [Q00526](#)**CDK3 Antibody (N-term Y19) Blocking Peptide - Additional Information****Gene ID** 1018**Other Names**

Cyclin-dependent kinase 3, Cell division protein kinase 3, CDK3, CDKN3

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7519a](/products/AP7519a) was selected from the N-term region of human CDK3. 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.

**CDK3 Antibody (N-term Y19) Blocking Peptide - Protein Information****Name** CDK3**Synonyms** CDKN3**Function**

Serine/threonine-protein kinase that plays a critical role in the control of the eukaryotic cell cycle; involved in G0-G1 and G1-S cell cycle transitions. Interacts with CCNC/cyclin-C during interphase. Phosphorylates histone H1, ATF1, RB1 and CABLES1. ATF1 phosphorylation triggers ATF1 transactivation and transcriptional activities, and promotes cell proliferation and transformation. CDK3/cyclin-C mediated RB1 phosphorylation is required for G0-G1 transition. Promotes G1-S transition probably by contributing to the activation of E2F1, E2F2 and E2F3 in a RB1-independent manner.

**Tissue Location**

Expressed in cancer cell lines and glioblastoma tissue.

**CDK3 Antibody (N-term Y19) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**CDK3 Antibody (N-term Y19) Blocking Peptide - Images****CDK3 Antibody (N-term Y19) Blocking Peptide - Background**

This gene encodes a member of the cyclin-dependent protein kinase family. The protein promotes entry into S phase, in part by activating members of the E2F family of transcription factors. The protein also associates with cyclin C and phosphorylates the retinoblastoma 1 protein to promote exit from G0.

**CDK3 Antibody (N-term Y19) Blocking Peptide - References**

Bullrich, F., et al., Cancer Res. 55(6):1199-1205 (1995). Meyerson, M., et al., EMBO J. 11(8):2909-2917 (1992).