

**CDC7 (CDC7L1) Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP7515b****Specification**

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**CDC7 (CDC7L1) Antibody (C-term) Blocking peptide - Product Information**Primary Accession [O00311](#)**CDC7 (CDC7L1) Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 8317**Other Names**

Cell division cycle 7-related protein kinase, CDC7-related kinase, HsCdc7, huCdc7, CDC7, CDC7L1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7515b](/product/products/AP7515b) was selected from the C-term region of human CDC7L1. 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.

**CDC7 (CDC7L1) Antibody (C-term) Blocking peptide - Protein Information****Name** CDC7 ([HGNC:1745](#))**Synonyms** CDC7L1**Function**

Kinase involved in initiation of DNA replication. Phosphorylates critical substrates that regulate the G1/S phase transition and initiation of DNA replication, such as MCM proteins and CLASPIN.

**Cellular Location**

Nucleus.

**CDC7 (CDC7L1) Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

#### **CDC7 (CDC7L1) Antibody (C-term) Blocking peptide - Images**

#### **CDC7 (CDC7L1) Antibody (C-term) Blocking peptide - Background**

CDC7L1 is predominantly localized in the nucleus and is a cell division cycle protein with kinase activity. Although expression levels of the protein appear to be constant throughout the cell cycle, the protein kinase activity appears to increase during S phase. It has been suggested that the protein is essential for initiation of DNA replication and that it plays a role in regulating cell cycle progression. Overexpression of this gene product may be associated with neoplastic transformation for some tumors.

#### **CDC7 (CDC7L1) Antibody (C-term) Blocking peptide - References**

Montagnoli, A., et al., EMBO J. 21(12):3171-3181 (2002). Hess, G.F., et al., Gene 211(1):133-140 (1998). Jiang, W., et al., Proc. Natl. Acad. Sci. U.S.A. 94(26):14320-14325 (1997). Sato, N., et al., EMBO J. 16(14):4340-4351 (1997).