

CDC7 (CDC7L1) Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP7515a**Specification**

CDC7 (CDC7L1) Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [O00311](#)**CDC7 (CDC7L1) Antibody (N-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 [AP7515a](/product/products/AP7515a) was selected from the N-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 (N-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 (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

CDC7 (CDC7L1) Antibody (N-term) Blocking peptide - Images

CDC7 (CDC7L1) Antibody (N-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 (N-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).