

## CDC7 (CDC7L1) Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7515a

#### Specification

## CDC7 (CDC7L1) Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	<u>000311</u>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	63888
Antigen Region	1-30

## CDC7 (CDC7L1) Antibody (N-term) - Additional Information

Gene ID 8317

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

**Target/Specificity** This CDC7 (CDC7L1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human CDC7 (CDC7L1).

**Dilution** WB~~1:1000 E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** CDC7 (CDC7L1) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## CDC7 (CDC7L1) Antibody (N-term) - Protein Information

Name CDC7 (<u>HGNC:1745</u>)

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.

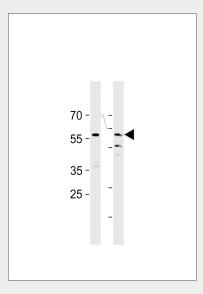
**Cellular Location** Nucleus.

## CDC7 (CDC7L1) Antibody (N-term) - Protocols

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

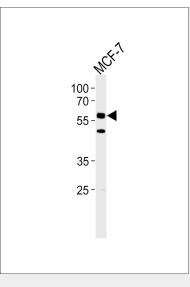
- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

#### CDC7 (CDC7L1) Antibody (N-term) - Images



HCDC7L1 Antibody (M9) (Cat. #AP7515a) western blot analysis in HT29,MCF-7 cell line lysates (35ug/lane).This demonstrates the HCDC7L1 antibody detected the HCDC7L1 protein (arrow).





HCDC7L1 Antibody (M9) (Cat. #AP7515a) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the HCDC7L1 antibody detected the HCDC7L1 protein (arrow).

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