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CINP Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP9272c

Specification

CINP Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9BW66

CINP Antibody (Center) Blocking Peptide - Additional Information

Gene ID 51550

Other Names
Cyclin-dependent kinase 2-interacting protein, CDK2-interacting protein, CINP

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP9272c was selected from the Center region of human CINP. 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.

CINP Antibody (Center) Blocking Peptide - Protein Information

Name CINP {ECO:0000303|PubMed:19889979, ECO:0000312|HGNC:HGNC:23789}

Function
Component of the DNA replication complex, which interacts with two kinases, CDK2 and CDC7, thereby providing a functional and physical link between CDK2 and CDC7 during firing of the origins of replication (PubMed:16082200, PubMed:19889979). Regulates ATR-mediated checkpoint signaling in response to DNA damage (PubMed:19889979). Also involved in the cytoplasmic maturation steps of pre-60S ribosomal particles by promoting the release of shuttling protein RSL24D1/RLP24 from the pre-ribosomal particles (PubMed:35354024). Promotes maturation of pre-60S ribosome together with AFG2A, AFG2B and AIRIM (PubMed:35354024).

Cellular Location
Nucleus. Note=Binds to nuclear under G1 conditions, and dissociates from chromatin with the start of DNA replication.

CINP Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

CINP Antibody (Center) Blocking Peptide - Images

CINP Antibody (Center) Blocking Peptide - Background

CINP interacts with CDK2, MCM5, and CDC7, and is associated with the origin recognition complex protein ORC2. It acts as a homodimer and is involved in replication and ATR-mediated checkpoint signaling.

CINP Antibody (Center) Blocking Peptide - References

Lovejoy,C.A., et.al, Proc. Natl. Acad. Sci. U.S.A. 106 (46), 19304-19309 (2009)Grishina,I. et.al, Cell Cycle 4 (8), 1120-1126 (2005)