



Rabbit Anti-CINP antibody

SL9077R

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| Product Name: | CINP |
| Chinese Name: | CDK2相互作用蛋白抗体 |
| Alias: | CINP protein; CDK2-interacting protein; CINP; CINP_HUMAN; Cyclin dependent kinase 2 interacting protein; Cyclin-dependent kinase 2-interacting protein; MGC849. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep, |
| Applications: | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 24kDa |
| Cellular localization: | The nucleus |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human CINP:51-150/212 |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| PubMed: | PubMed |
| Product Detail: | Cell cycle progression is controlled in part by a family of cyclin proteins and cyclin dependent kinases (Cdks). Cdk proteins work in concert with the cyclins to phosphorylate key substrates involved in each phase of cell cycle progression. Specifically, Cdk2 interacts with Cyclins A, B1, B3, D, or E to control cell cycle progression. The Cyclin-dependent kinase 2-interacting protein (CINP) interacts with components of the replication complex and Cdk2 and Cdc7, thereby providing a |

functional and physical link between Cdk2 and Cdc7 during firing of the origins of replication. However, CINP is phosphorylated by Cdc7, but not by Cdk2. CINP also interacts with ATR-interacting protein and regulates ATR-dependent signaling, resistance to replication stress and G2 checkpoint integrity.

Function:

Interacts with the components of the replication complex and 2 kinases, CDK2 and CDC7, thereby providing a functional and physical link between CDK2 and CDC7 during firing of the origins of replication. Regulates ATR-mediated checkpoint signaling.

Subunit:

Homodimer. Interacts with CDK2 and CDC7. Interacts with the components of the replication complex, MCM2, MCM3, MCM4, MCM5, MCM6, MCM7 and with ORC2-containing complexes. Interacts with ATRIP. Interacts with CEP152.

Subcellular Location:

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

Post-translational modifications:

Phosphorylated by CDC7 but not by CDK2.

Similarity:

Belongs to the CINP family.

SWISS:

Q9BW66

Gene ID:

51550

Database links:

[Entrez Gene: 51550](#) Human

[Omim: 613362](#) Human

[SwissProt: Q9BW66](#) Human

[Unigene: 129634](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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