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Phospho-CDK4-T172 Rabbit pAb

Catalog No.: AP0593 **12 Publications**

Basic Information

Observed MW
33kDa

Calculated MW
34kDa

Category
Primary antibody

Applications
WB,IF-P,ELISA

Cross-Reactivity
Human, Mouse, Rat

Background

The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene products of S. cerevisiae cdc28 and S. pombe cdc2. It is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase is restricted to the G1-S phase, which is controlled by the regulatory subunits D-type cyclins and CDK inhibitor p16(INK4a). This kinase was shown to be responsible for the phosphorylation of retinoblastoma gene product (Rb). Mutations in this gene as well as in its related proteins including D-type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis of a variety of cancers. Multiple polyadenylation sites of this gene have been reported.

Recommended Dilutions

WB	1:500 - 1:2000
IF-P	1:100 - 1:200
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
1019

Swiss Prot
P11802

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
CMM3; PSK-J3; Phospho-CDK4-T172

Contact

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Product Information

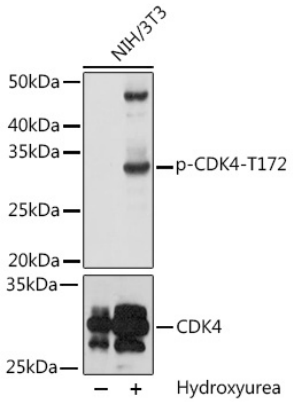
Source
Rabbit

Isotype
IgG

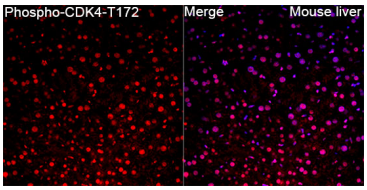
Purification
Affinity purification

Storage
Store at -20℃

Validation Data



Western blot analysis of lysates from NIH/3T3 cells, using Phospho-CDK4-T172 Rabbit pAb (A0366).
NIH/3T3 cells were treated with Hydroxyurea (4 mM) at 37℃ for 20 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% BSA.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.



Immunofluorescence analysis of Mouse liver tissue using Phospho-CDK4-T172 Rabbit pAb (AP0593) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L)(AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining.