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Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit pAb

Catalog No.: AP0324SP **11 Publications**

Basic Information

Observed MW
34 kDa/37 kDa

Calculated MW
28-35 kDa

Category
Primary antibody

Applications
WB,IP,IF/ICC,IF-P,IHC-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 a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitotic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phosphorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Recommended Dilutions

WB	1:1000 - 1:2000
IP	0.5 μg - 4 μg antibody for 500 μg - 700 μg extracts of whole cells
IF/ICC	1:200 - 1:1000
IF-P	1:200 - 1:1000
IHC-P	1:500 - 1:2000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
983/1017/1018

Swiss Prot
P06493/P24941/Q00526

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

Synonyms
CDC2; CDC28A; P34CDC2

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide.
May contain 0.05% BSA as specified on the Certificate of Analysis.

Contact

400-999-6126

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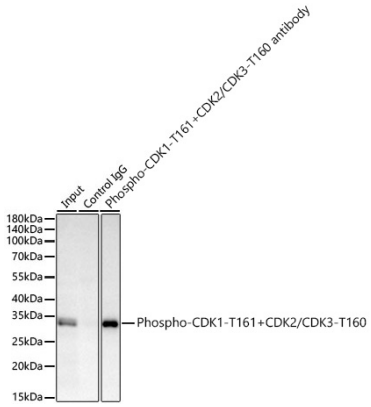
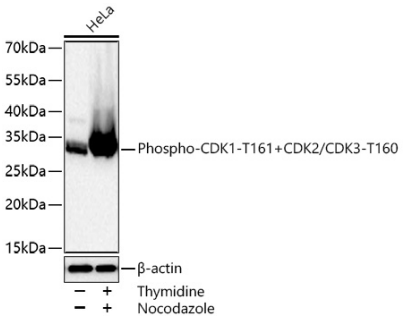
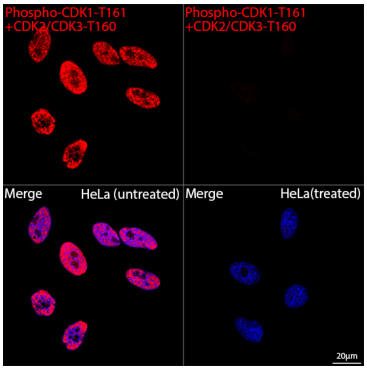
Validation Data



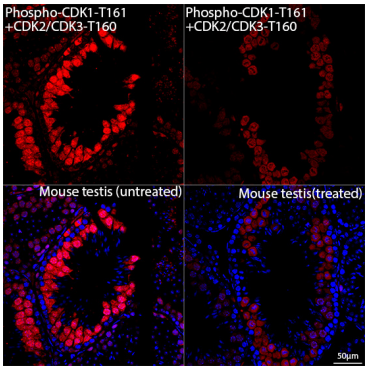
Immunoprecipitation of Phospho-CDK1-T161+CDK2/CDK3-T160 from 600 µg extracts of HeLa cells treated with UV (100 mJ, 4 h) was performed using 2 µg of Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit pAb (AP0324SP). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit pAb (AP0324SP) at a dilution of 1:1000.



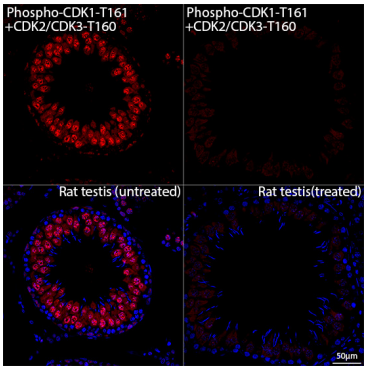
Western blot analysis of lysates from HeLa cells using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit pAb (AP0324SP) at 1:1000 dilution incubated overnight at 4℃. HeLa cells were treated with Thymidine (1mM) at 37°C for 16 hours and Nocadazole(100 ng/mL) at 37°C for 24 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20 s.



Confocal imaging of HeLa cells (untreated) and HeLa cells (treated with λPP) using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit pAb (AP0324SP, dilution 1:300) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.

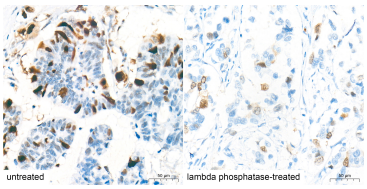


Confocal imaging of paraffin-embedded Mouse testis tissue (untreated) and Mouse testis tissue (treated with λPP) using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit pAb (AP0324SP, dilution 1:300) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

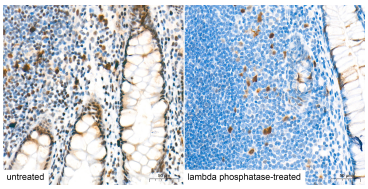


Confocal imaging of Rat testis tissue (untreated) and Rat testis tissue (treated with λPP) using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit pAb (AP0324SP, dilution 1:300) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

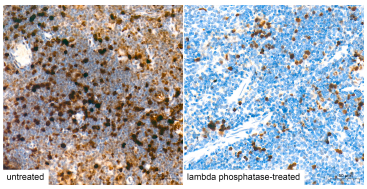
Validation Data



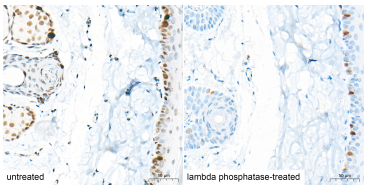
Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit pAb (AP0324SP) at a dilution of 1:800 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human colon tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit pAb (AP0324SP) at a dilution of 1:800 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit pAb (AP0324SP) at a dilution of 1:800 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat skin tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit pAb (AP0324SP) at a dilution of 1:800 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.