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

Catalog No.: AP1551 Recombinant

Basic Information

Observed MW
28kDa/34kDa

Calculated MW
34kDa

Category
Primary antibody

Applications
WB,IF-P,IHC-P,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC71461

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	1:9500 - 1:19000
IF-P	1:200 - 1:800
IHC-P	1:500 - 1:2000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
983

Swiss Prot
P06493

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

Synonyms
CDC2; CDC28A; P34CDC2; Phospho-CDK1-T14

Contact

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Product Information

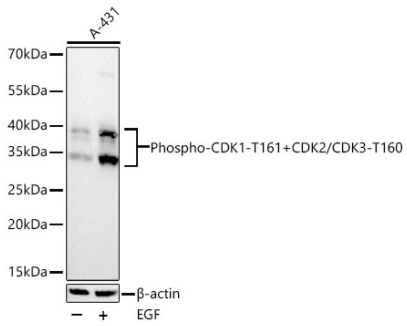
Source
Rabbit

Isotype
IgG

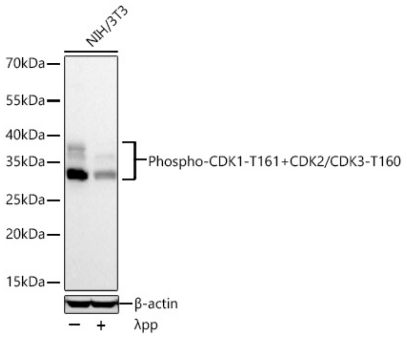
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

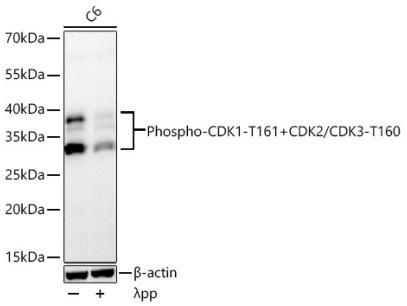
Validation Data



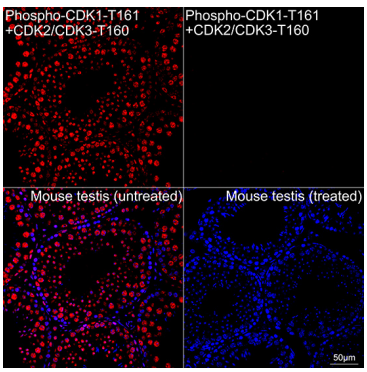
Western blot analysis of lysates from A-431 cells using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit mAb (AP1551) at 1:19000 dilution incubated overnight at 4℃. A-431 cells were treated by EGF (100 ng/mL) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit 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: 90s.



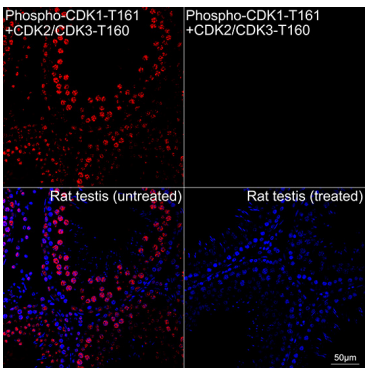
Western blot analysis of lysates from NIH/3T3 cells using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit mAb (AP1551) at 1:19000 dilution incubated overnight at 4℃. NIH/3T3 cells were treated by λ-PP mixed solution (1µL) at 30℃ for 30 minutes
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) 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: 90s.



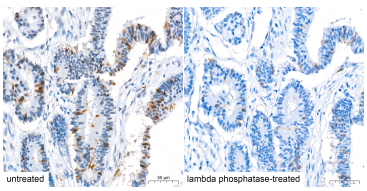
Western blot analysis of lysates from C6 cells using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit mAb (AP1551) at 1:19000 dilution incubated overnight at 4℃. C6 cells were treated by λ-PP mixed solution (1µL) at 30℃ for 30 minutes
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 180s.



Confocal imaging of paraffin-embedded Mouse testis (untreated) and Mouse testis (treated with λPP) tissue using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit mAb



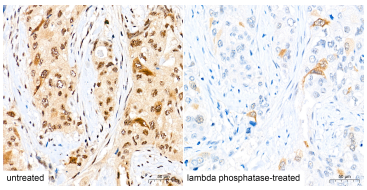
Confocal imaging of paraffin-embedded Rat testis (untreated) and Rat testis (treated with λPP) tissue using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit mAb



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit mAb (AP1551) at a dilution of 1:900

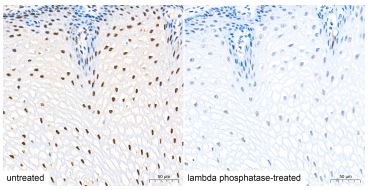
Validation Data

(AP1551, dilution 1:200) followed by a further incubation with Cy3 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.



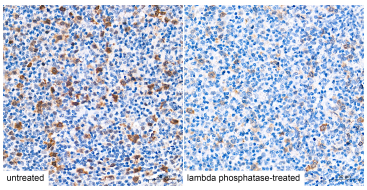
Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit mAb (AP1551) at a dilution of 1:900 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

(AP1551, dilution 1:200) followed by a further incubation with Cy3 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.



Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit mAb (AP1551) at a dilution of 1:900 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

(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 tonsil tissue using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit mAb (AP1551) at a dilution of 1:900 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.