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

Catalog No.: AP1466 Recombinant

Basic Information

Observed MW
28,34kDa/34-37kDa

Calculated MW
34kDa

Category
Primary antibody

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

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC3239

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	1:500 - 1:1000
IP	0.5μg-4μg antibody for 400μg-600μg extracts of whole cells
IF-P	1:50 - 1:200
IHC-P	1:100 - 1:500
DB	1:500 - 1:1000
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; CDK1

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

400-999-6126

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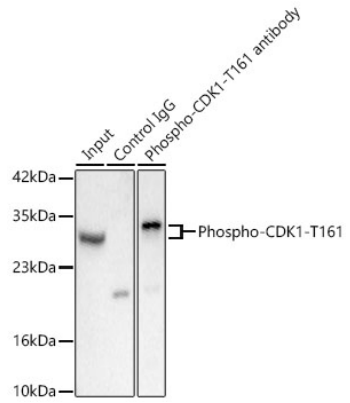
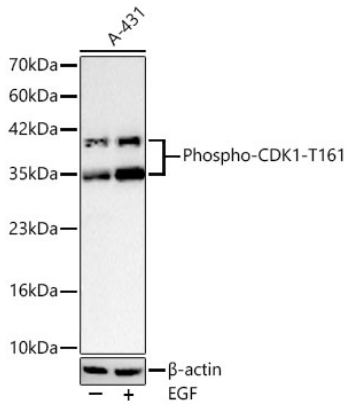
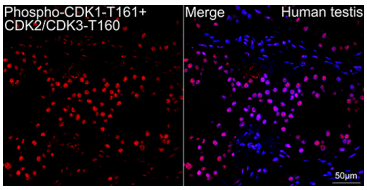
Validation Data



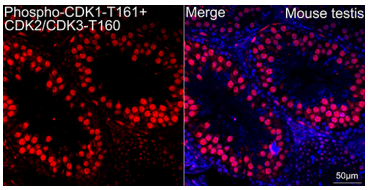
Immunoprecipitation of Phospho-CDK1-T161 in 500 µg extracts from HeLa cells treated with UV (100 mJ□4h), using 2 µg Phospho-CDK1-T161 Rabbit mAb (AP1466). Western blot analysis was performed using Phospho-CDK1-T161 Rabbit mAb (AP1466) at 1:1000 dilution.



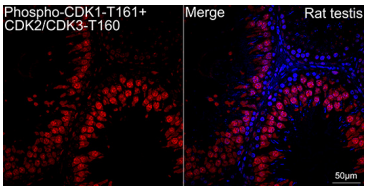
Western blot analysis of lysates from A-431 cells using Phospho-CDK1-T161 Rabbit mAb (AP1466) at 1:1000 dilution. A-431 cells were treated with EGF (200 ng/ml) at 37℃ for 30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45s.



Confocal imaging of paraffin-embedded Human tesits tissue using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit mAb (AP1466, dilution 1:100) 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). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.

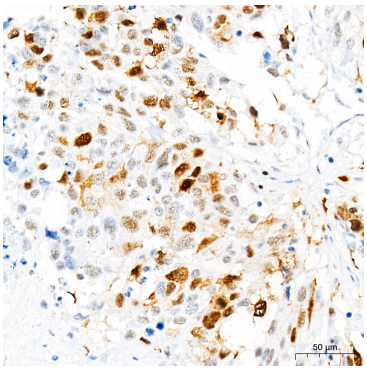


Confocal imaging of paraffin-embedded Mouse testis tissue using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit mAb (AP1466, dilution 1:100) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.

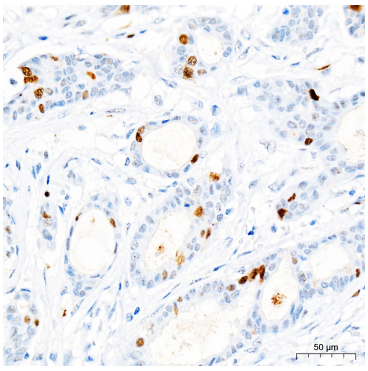


Confocal imaging of paraffin-embedded Rat testis tissue using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit mAb (AP1466, dilution 1:100) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.

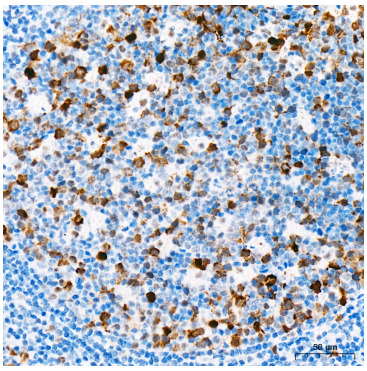
Validation Data



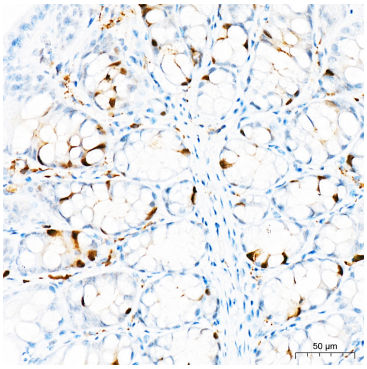
Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue using Phospho-CDK1-T161 Rabbit mAb (AP1466) at a dilution of 1:500 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



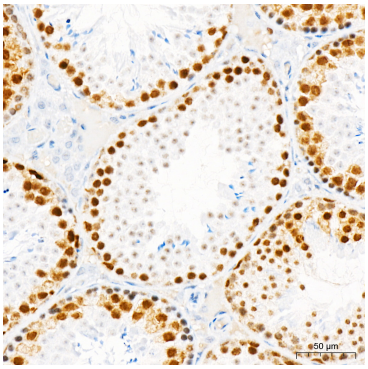
Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using Phospho-CDK1-T161 Rabbit mAb (AP1466) at a dilution of 1:500 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



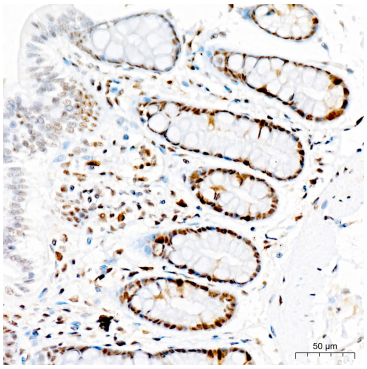
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using Phospho-CDK1-T161 Rabbit mAb (AP1466) at a dilution of 1:500 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



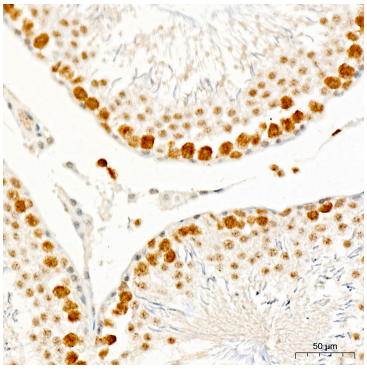
Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using Phospho-CDK1-T161 Rabbit mAb (AP1466) at a dilution of 1:500 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



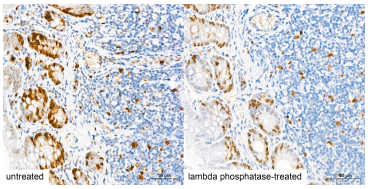
Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using Phospho-CDK1-T161 Rabbit mAb (AP1466) at a dilution of 1:500 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit mAb (AP1466) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat testis tissue using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit mAb (AP1466) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat intestine tissue, Untreated (left) and lambda phosphatase-treated (right), using Phospho-CDK1-T161+CDK2/CDK3-T160 Rabbit mAb (AP1466) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.