AP0324

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Phospho-CDK1-T161 Rabbit pAb

Catalog No.: AP0324 7 Publications

Basic Information

Observed MW
34kDa

Calculated MW
34kDa

Category
Polyclonal Antibody

Applications
WB,IHC-P,IF/ICC,IP,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	1:100 - 1:500
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Contact

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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-T161

Product Information

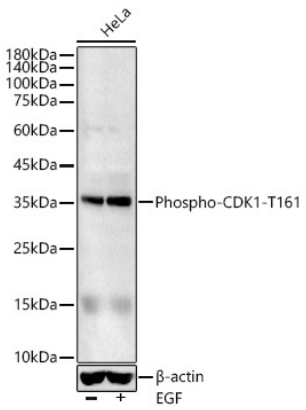
Source
Rabbit

Isotype
IgG

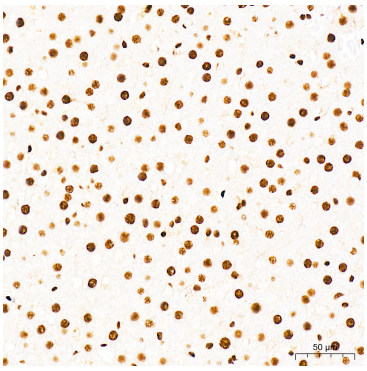
Purification
Affinity purification

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

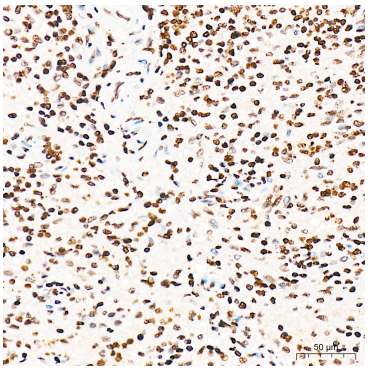
Validation Data



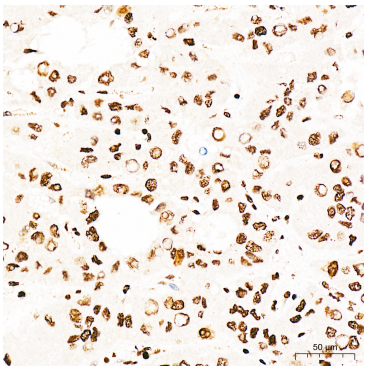
Western blot analysis of lysates from HeLa cells, using Phospho-CDK1-T161 Rabbit pAb (AP0324) at 1:400 dilution. HeLa cells were treated with EGF.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.



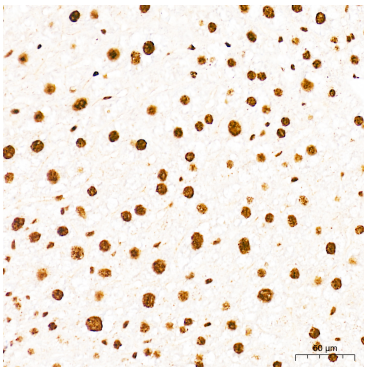
Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using Phospho-CDK1-T161 Rabbit pAb (AP0324) at a dilution of 1:300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



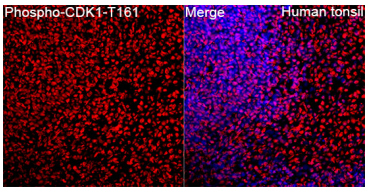
Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using Phospho-CDK1-T161 Rabbit pAb (AP0324) at a dilution of 1:300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



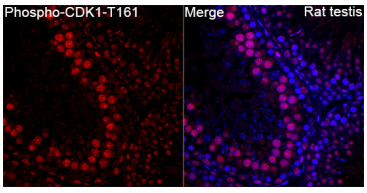
Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using Phospho-CDK1-T161 Rabbit pAb (AP0324) at a dilution of 1:300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using Phospho-CDK1-T161 Rabbit pAb (AP0324) at a dilution of 1:300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



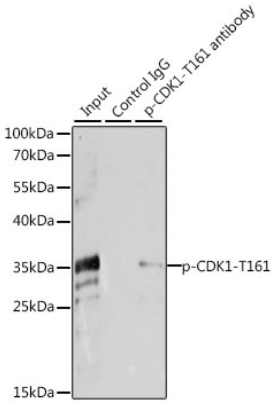
Immunofluorescence analysis of Human tonsil tissue using Phospho-CDK1-T161 Rabbit pAb (AP0324) at a dilution of 1:100 (40x lens).
Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L)(AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF



Immunofluorescence analysis of Rat testis tissue using Phospho-CDK1-T161 Rabbit pAb (AP0324) 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

Validation Data

staining. staining.



Immunoprecipitation analysis of 200 μg extracts of HeLa cells, using 3 μg Phospho-CDK1-T161 pAb (AP0324). Western blot was performed from the immunoprecipitate using Phospho-CDK1-T161 pAb (AP0324) at a dilution of 1:1000. HeLa cells were treated with EGF (100 ng/mL) at 37℃ for 30 minutes after serum-starvation overnight.