

Phospho-CDK1-Y15 Rabbit pAb

Catalog No.: AP0016

17 Publications

Basic Information

Observed MW

34kDa

Calculated MW

34kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IF/ICC, IP

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	1:500 - 1:1000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200
IP	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells

Immunogen Information

Gene ID	Swiss Prot
983	P06493

Immunogen

A synthetic phosphorylated peptide around Y15 of human CDK1 (NP_001777.1).

Synonyms

CDC2; CDC28A; P34CDC2; Phospho-CDK1-Y15

Contact

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Product Information

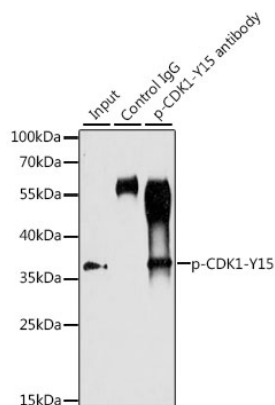
Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

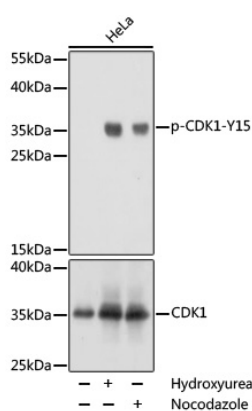
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

Validation Data



Immunoprecipitation analysis of 200 µg extracts of HT-29 cells, using 3 µg Phospho-CDK1-Y15 pAb (AP0016). Western blot was performed from the immunoprecipitate using Phospho-CDK1-Y15 pAb (AP0016) at a dilution of 1:1000. HT-29 cells were treated by Serum-starvation overnight at 37°C.



Western blot analysis of lysates from NIH/3T3 cells, using Phospho-CDK1-Y15 Rabbit pAb (A0220). HeLa cells were treated by nocodazole (50 ng/mL) at 37°C for 20 hours or Hydroxyurea (4 mM) at 37°C for 20 hours.

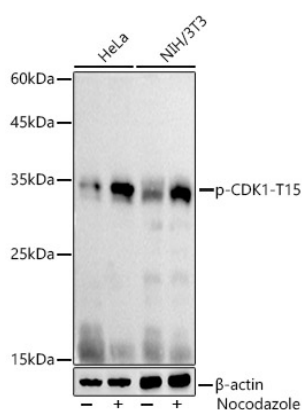
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% BSA.

Detection: ECL Basic Kit (RM00020).

Exposure time: 1s.



Western blot analysis of various lysates using Phospho-CDK1-Y15 Rabbit pAb (AP0016) at 1:1000 dilution. HeLa and NIH/3T3 cells were treated by nocodazole (50 ng/ml) at 37°C for 20 hours.

Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

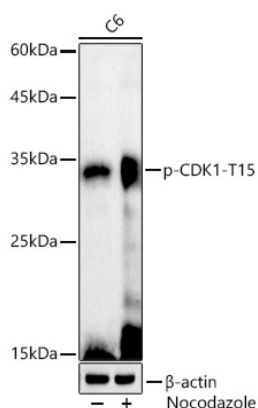
Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 10s.

Validation Data



Western blot analysis of lysates from C6 cells, using Phospho-CDK1-Y15 Rabbit pAb (AP0016) at 1:1000 dilution. C6 cells were treated by Nocodazole (50 ng/ml) at 37°C for 20 hours.

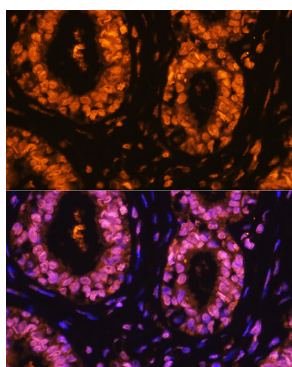
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

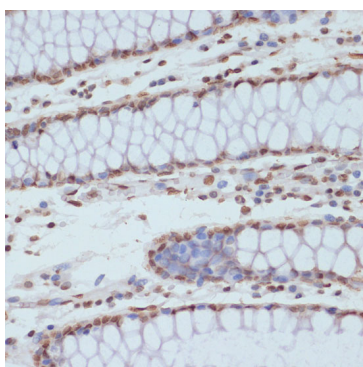
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

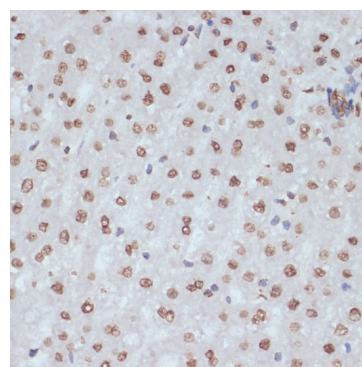
Exposure time: 90s.



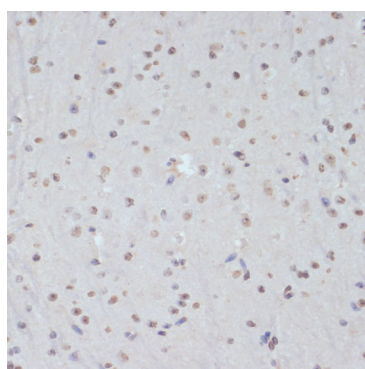
Immunofluorescence analysis of paraffin-embedded human breast cancer using Phospho-CDK1-Y15 Rabbit pAb (AP0016) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of Phospho-CDK1-Y15 in paraffin-embedded human colon using Phospho-CDK1-Y15 Rabbit pAb (AP0016) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Phospho-CDK1-Y15 in paraffin-embedded rat liver using Phospho-CDK1-Y15 Rabbit pAb (AP0016) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Phospho-CDK1-Y15 in paraffin-embedded mouse brain using Phospho-CDK1-Y15 Rabbit pAb (AP0016) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.