Anti-Phospho-CDK1 (Tyr15) Rabbit pAb

Purified Rabbit Polyclonal Antibody

Catalog # P108607

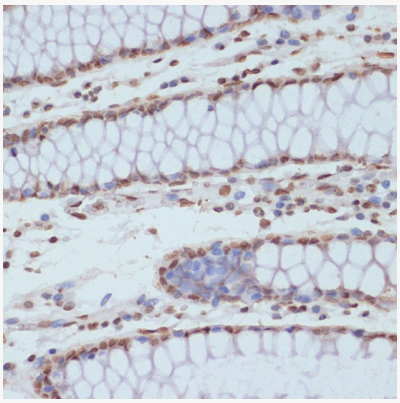
Product Information

Application	WB, IP, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:500~1:1000; IP 0.5μg-4μg antibody for 200μg-400μg extracts of whole cells; IF 1:50~1:200; IHC-P 1:50~1:200
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphorylated peptide around Y15 of human CDK1 (NP_001777.1).
Format	Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-CDK1 (Tyr15) Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

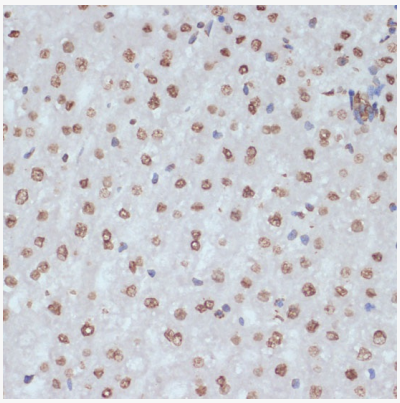
Protein Information

Synonyms	CDC2; CDC28A; P34CDC2; Phospho-CDK1-Y15.
Calculated MW	Calculated MW: 34 kDa; Observed MW: 34 kDa
Uniprot ID	P06493
Gene ID	983
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.

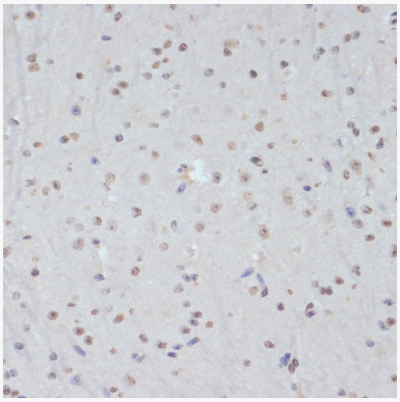
Validation Images



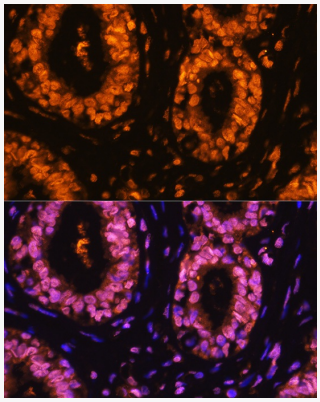
Immunohistochemistry analysis of paraffin-embedded Human colon using Phospho-CDK1-Y15 Rabbit pAb (P108607) at dilution of 1:100 (40× lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



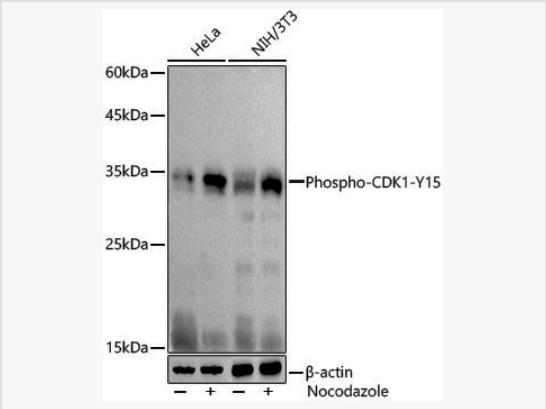
Immunohistochemistry analysis of paraffin-embedded Rat liver using Phospho-CDK1-Y15 Rabbit pAb (P108607) at dilution of 1:100 (40× lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



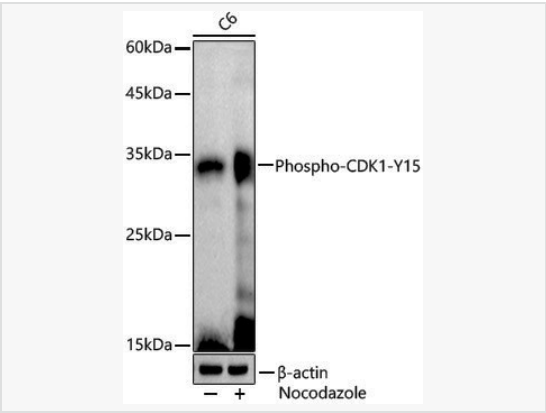
Immunohistochemistry analysis of paraffin-embedded Mouse brain using Phospho-CDK1-Y15 Rabbit pAb (P108607) at dilution of 1:100 (40× lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



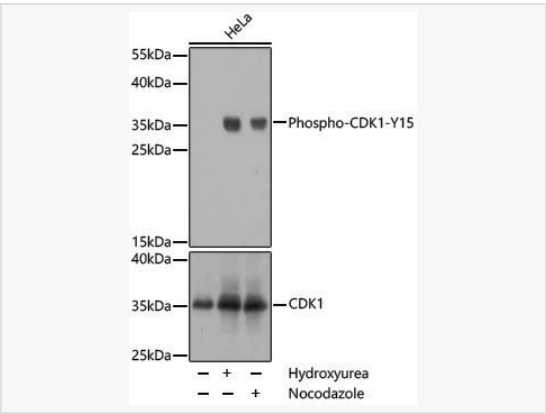
Immunofluorescence analysis of paraffin-embedded human breast cancer using Phospho-CDK1-Y15 Rabbit pAb (P108607) at dilution of 1:100 (40× lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



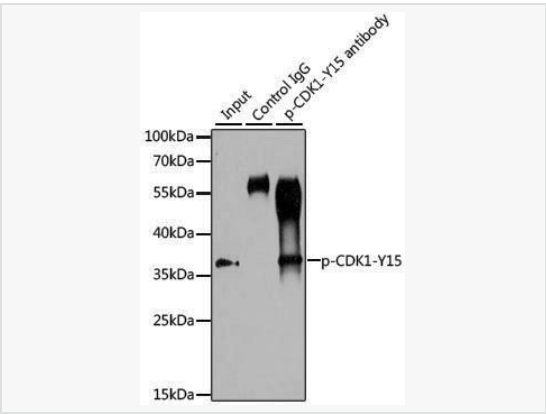
Western blot analysis of various lysates using Phospho-CDK1-Y15 Rabbit pAb (P108607) at 1:1,000 dilution. HeLa and NIH/3T3 cells were treated by nocodazole (50 ng/ml) at 37°C for 20 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Kit.
Exposure time: 10s.



Western blot analysis of lysates from C6 cells, using Phospho-CDK1-Y15 Rabbit pAb (P108607) at 1:1,000 dilution. C6 cells were treated by Nocodazole (50 ng/ml) at 37°C for 20 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Kit.
Exposure time: 90s.



Western blot analysis of lysates from HeLa cells, using Phospho-CDK1-Y15 Rabbit pAb (P108607). 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-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% BSA.
Detection: ECL Kit.
Exposure time: 1s.



Immunoprecipitation analysis of 200 µg extracts of HT-29 cells, using 3 µg Phospho-CDK1-Y15 pAb (P108607). Western blot was performed from the immunoprecipitate using Phospho-CDK1-Y15 pAb (P108607) at a dilution of 1:1000. HT-29 cells were treated by Serum-starvation overnight at 37°C.