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Product datasheet for TA374547

CDK1 Rabbit Polyclonal Antibody

Product data:

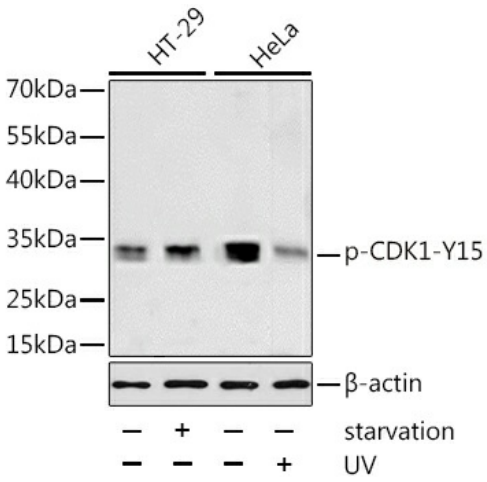
Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, IP, WB
Recommended Dilution:	WB,1:500 - 1:1000 IHC,1:50 - 1:200 IF,1:50 - 1:100 IP,1:50 - 1:100
Reactivity:	Human, Mouse, Rat
Modifications:	Phospho Y15
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic phosphorylated peptide around Y15 of human CDK1 (NP_001777.1).
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20℃. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	27kDa/34kDa
Gene Name:	cyclin-dependent kinase 1
Database Link:	Entrez Gene 983 Human P06493

View online »

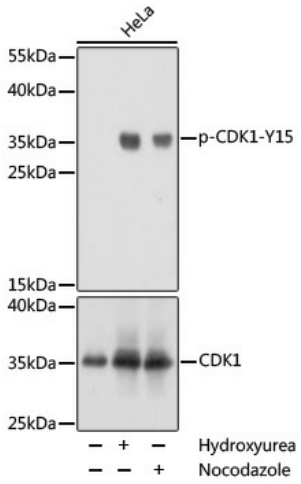
Background: The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitotic 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.

Synonyms: Cdc2; Cdc2a; p34

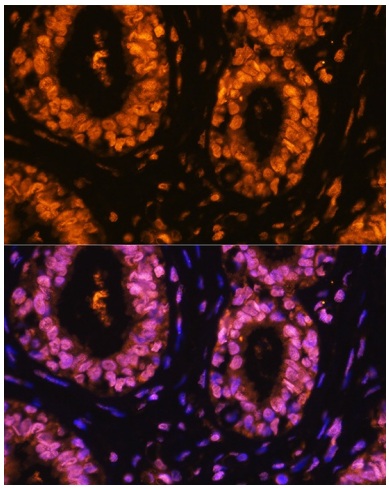
Product images:



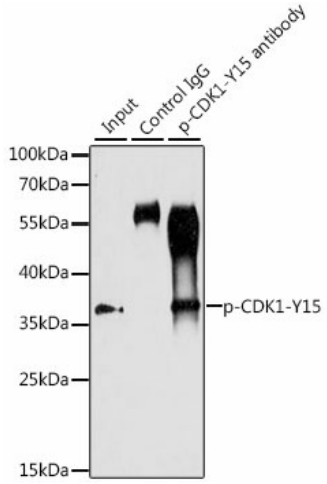
Western blot analysis of extracts of HT-29 and HeLa cells, using Phospho-CDK1-Y15 antibody (TA374547) at 1:1000 dilution. HT-29 cells were treated by serum-starvation overnight. HeLa cells were treated by UV for 15-30 minutes.|Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.|Lysates/proteins: 25ug per lane.|Blocking buffer: 3% BSA.|Detection: ECL Basic Kit .|Exposure time: 1min.



Western blot analysis of extracts of NIH/3T3 cells, using phospho-STK4-T387 pAb (TA374547) at 1:1000 dilution or CDK1 antibody (A0220).HeLa cellls 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) at 1:10000 dilution.|Lysates/proteins: 25ug per lane.|Blocking buffer: 3% BSA.|Detection: ECL Basic Kit .|Exposure time: 1s.



Immunofluorescence analysis of human breast cancer using Phospho-CDK1-Y15 Rabbit pAb (TA374547) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 200ug extracts of HT-29 cells, using 3 ug Phospho-CDK1-Y15 pAb (TA374547). Western blot was performed from the immunoprecipitate using Phospho-CDK1-Y15 pAb (TA374547) at a dilition of 1:1000. HT-29 cells were treated by Serum-starvation overnight at 37°C.