For Research Use Only

CDK1 Polyclonal antibody

Catalog Number: 10762-1-AP

Featured Product





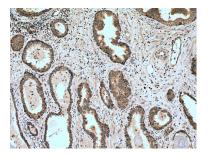
Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 10762-1-AP BC014563 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 400 ug/ml by 983 WB 1:1000-1:4000 IHC 1:250-1:1000 Nanodrop: UNIPROT ID: IF/ICC 1:200-1:800 Source P06493 Rabbit Full Name: Isotype cell division cycle 2, G1 to S and G2 to lgG Μ Immunogen Catalog Number: Calculated MW: AG1183 25 kDa **Observed MW:** 30-34 kDa **Applications Tested Applications:** Positive Controls: WB, IHC, IF/ICC, FC (Intra), ELISA WB: C2C12 cell, HeLa cells, C2C12 cells, Jurkat cells **Cited Applications:** IHC : human prostate cancer tissue, human breast WB, IHC, IF cancer tissue Species Specificity: **IF/ICC** : Hella cells human, mouse **Cited Species:** human, mouse, pig, chicken, goat Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 CDK1, also named as CDC2, belongs to the protein kinase superfamily, CMGC Ser/Thr protein kinase family and **Background Information** CDC2/CDKX subfamily. CDK1 plays a key role in the control of the eukaryotic cell cycle. It is required in higher cells for entry into S-phase and mitosis. CDK1 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. It is a component of the kinase complex that phosphorylates the repetitive C-terminus of RNA polymerase II. Mitotic cyclins stably associate with CDK1 and function as regulatory subunits. CDK1 has 2 isoforms produced by alternative splicing with the molecular mass of 34 kDa and 27 kDa. This antibody may have cross reaction with CDK2. **Notable Publications** Pubmed ID Author Journal Application Zilu Zhang Cancer Biol Med WB 34570444 Mol Cell Biochem WB Qin Zhang 36083512 Huan Ma Oncol Res WB 33573708 Storage: Storage Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3 Aliquoting is unnecessary for -20°C storage *** 20ul sizes contain 0.1% BSA For technical support and original validation data for this product please contact: This product is exclusively available under Proteintech T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com

in USA), or 1(312) 455-8498 (outside USA)

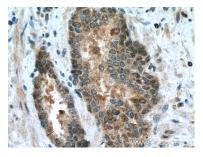
W: ptglab.com

Group brand and is not available to purchase from any other manufacturer.

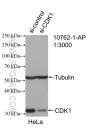
Selected Validation Data



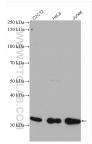
Immunohistochemical analysis of paraffinembedded human prostate cancer tissue slide using 10762-1-AP (CDK1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



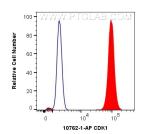
Immunohistochemical analysis of paraffinembedded human prostate cancer tissue slide using 10762-1-AP (CDK1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



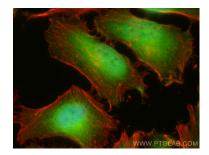
WB result of CDK1 antibody (10762-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CDK1 transfected HeLa cells.



Various lysates were subjected to SDS PAGE followed by western blot with 10762-1-AP (CDK1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



1X10[^]6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human CDK1 (10762-1-AP) and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CDK1 antibody (10762-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594phalloidin (red).