Anti-Cyclin D1 Rabbit pAb

Purified Rabbit Polyclonal Antibody

Catalog # P100711

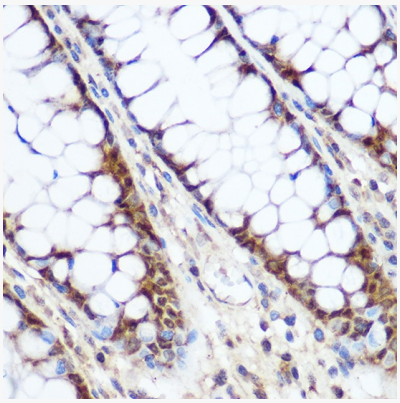
Product Information

Application	WB, IP, IF (Cell)/ICC, IHC-P, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1000~1:5000; 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	Recombinant fusion protein containing a sequence corresponding to amino acids 200-295 of human Cyclin D1 (NP_444284.1).
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-Cyclin D1 Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

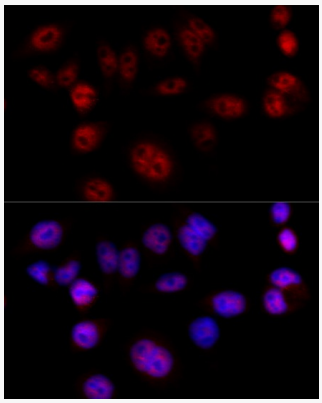
Protein Information

Synonyms	BCL1; PRAD1; U21B31; D11S287E; Cyclin D1.
Calculated MW	Calculated MW: 34 kDa; Observed MW: 35 kDa
Uniprot ID	P24385
Gene ID	595
Background	The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance throughout the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with tumor suppressor protein Rb and the expression of this gene is regulated positively by Rb. Mutations, amplification and overexpression of this gene, which alters cell cycle progression, are observed frequently in a variety of human cancers.

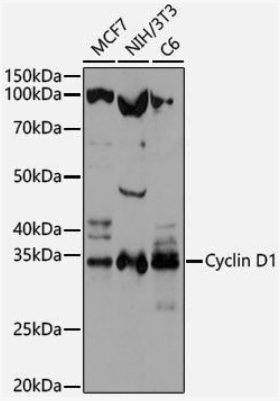
Validation Images



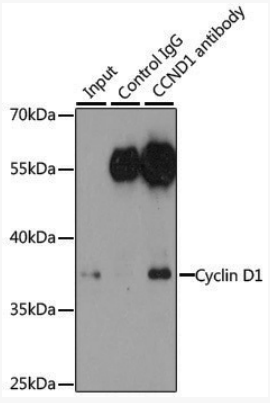
Immunohistochemistry analysis of paraffin-embedded Human colon using Cyclin D1 Rabbit pAb (P100711) at dilution of 1:100 (40× lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunofluorescence analysis of HeLa cells using Cyclin D1 Rabbit pAb (P100711) 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 Cyclin D1 Rabbit pAb (P100711) at 1:1,000 dilution.
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: 30s.



Immunoprecipitation analysis of 200 µg extracts of HepG2 cells, using 3 µg Cyclin D1 antibody (P100711). Western blot was performed from the immunoprecipitate using Cyclin D1 antibody (P100711) at a dilution of 1:1000.