

# Cyclin D1 Rabbit Polyclonal Antibody

OPR2081

**Reactivity** H,M,R, Pg

**Host** Rabbit

**Isotype** IgG

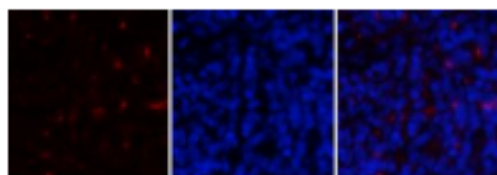
**Storage** -20 °C, Avoid freeze/ thaw cycles

**Applications** WB;IHC;IF;ELISA

**Concentration** 1 mg/mL

Note: Centrifuge before opening to ensure complete recovery of vial contents.

## Images



Immunofluorescence analysis of rat-spleen tissue. 1, Cyclin D1 Polyclonal Antibody (red) was diluted at 1:200(4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50minute).3, Picture B: DAPI (blue) 10minute. Picture A:Target.



Immunohistochemical analysis of paraffin-embedded Rat-spleen tissue.1, Cyclin D1 Polyclonal Antibody was diluted at 1:200(4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20minute). 3,Secondary antibody was diluted at 1:200(room temperature, 30minute). Negative control was used by secondary antibody only.

## Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human Cyclin D1.

AA range:246-295

**Swissprot** P24385

**Synonyms** CCND1; BCL1; PRAD1; G1/S-specific cyclin-D1; B-cell lymphoma 1 protein; BCL-1; BCL-1 oncogene; PRAD1oncogene

## Product Information

**Observed MW** 33 kDa

**Buffer** PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide

**Dilution** WB: 1/500-1/2000; IHC: 1/100-1/300; IF: 1:50-200; ELISA:1/40000.

Other applications have not been tested. Optimal dilutions/concentrations should be determined by the end user.

## 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 tumors and may contribute to tumorigenesis.

## Research Use

For research use only, not for use in diagnostic procedure.

## Legend

Applications: WB-Western Blot; IHC-Immunohistochemistry; IF-Immunofluorescence; IP-Immunoprecipitation; FC-Flow cytometry;ChIP-Chromatin Immunoprecipitation

Reactivity: H-Human; R-Rat; M-Mouse; Mk-Monkey; Dg-Dog; Ch-Chicken; Hm-Hamster; Rb-Rabbit; Sh- Sheep; Pg-Pig; Z-Zebrafish;X-Xenopus; C-Cow.

Please contact Origin Diagnostics and Research for further assistance

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