



### Cyclin D1

Rabbit Monoclonal antibody(Mab) **Catalog # AD80273** 

#### **Specification**

# Cyclin D1 - Product info

IHC-P Application **Primary Accession** P24385 Reactivity Human Rabbit Host Clonality **Monoclonal** Calculated MW 33729

### Cyclin D1 - Additional info

Gene ID 595 Gene Name CCND1

**Other Names** 

G1/S-specific cyclin-D1, B-cell lymphoma 1 protein, BCL-1, BCL-1 oncogene, PRAD1 oncogene, CCND1 {ECO:0000303|PubMed:8204893, ECO:0000312|HGNC:HGNC:1582}

**Dilution** 

IHC-P~~Ready-to-use

Storage

Maintain refrigerated at 2-8°C

**Precautions** Cyclin D1 Antibody is for research use only

and not for use in diagnostic or

therapeutic procedures.

#### **Cyclin D1 - Protein Information**

Name CCND1 {ECO:0000303|PubMed:8204893, ECO:0000312|HGNC:HGNC:1582}

**Synonyms** BCL1, PRAD1

**Function** Regulatory component of the cyclin

D1-CDK4 (DC) complex that phosphorylates

and inhibits members of the

retinoblastoma (RB) protein family

including RB1 and regulates the cell-cycle during G(1)/S transition. Phosphorylation

of RB1 allows dissociation of the

transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase. Hypophosphorylates RB1 in early G(1) phase. Cyclin D-CDK4 complexes are



Cellular Location

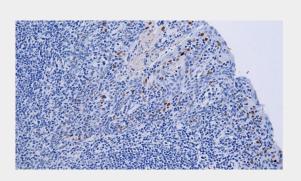
major integrators of various mitogenenic and antimitogenic signals. Also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D1/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin **D-CDK4** complex. Exhibits transcriptional corepressor activity with INSM1 on the NEUROD1 and INS promoters in a cell cycle-independent manner. Nucleus. Cytoplasm. Membrane. Note=Cvclin D-CDK4 complexes accumulate at the nuclear membrane and are then translocated to the nucleus through interaction with KIP/CIP family members

## **Cyclin D1 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

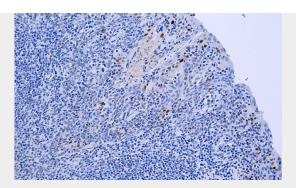
#### Cyclin D1 - Images



Tonsil







Immunohistochemical analysis of paraffin-embedded human tonsil tissue using AD80273 performed on the Abcarta® FAIP-30 Fully automated IHC platform. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a Citrate buffer (pH6. 0). Samples were incubated with primary antibody (Ready-to-use) for 15 min at room temperature. AmpSeeTM Detection Systems Abcepta: AR005 was used as the secondary antibody.