

Cyclin D1 Antibody
Rabbit Monoclonal Antibody (Mab)
Catalog # AD80273

Specification

Cyclin D1 Antibody - Product info

Application	IHC
Primary Accession	P24385
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Isotype	IgG
Calculated MW	33729

Cyclin D1 Antibody - 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, BCL1, PRAD1

Dilution

IHC~~Ready-to-use

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

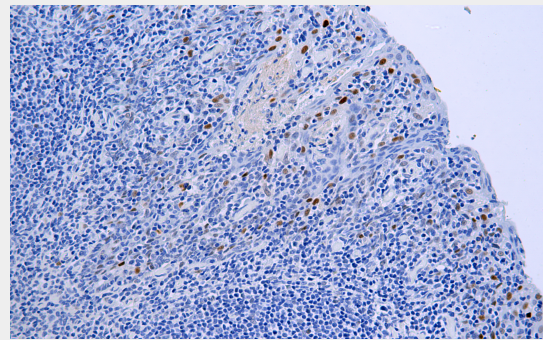
Precautions

Cyclin D1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Cyclin D1 Antibody - Protein Information

Name CCND1

Synonyms	BCL1, PRAD1
Function	Regulatory



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. AmpSee™ Detection Systems [Abcepta:AR005] was used as the secondary antibody.

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 major integrators of various mitogenic 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

Cellular Location	<p>corepressor activity with INSM1 on the NEUROD1 and INS promoters in a cell cycle-independent manner.</p> <p>Nucleus. Cytoplasm. Membrane.</p> <p>Note=Cyclin D-CDK4 complexes accumulate at the nuclear membrane and are then translocated to the nucleus through interaction with KIP/CIP family members</p>
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Cyclin D1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)