



# Mouse Anti-Human Cyclin D1 monoclonal antibody, clone JID663 (CABT-L2849)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	This antibody is intended for qualified laboratories to qualitatively identify by light microscopy the presence of associated antigens in sections of formalin-fixed, paraffin-embedded tissue sections using IHC test methods.
<b>Specificity</b>	Human Cyclin D1
<b>Isotype</b>	IgG
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	JID663
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC
<b>Reconstitution</b>	The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining. The concentrated antibody requires dilution in the optimized buffer, to the recommended working dilution range.
<b>Positive Control</b>	Mantle Cell Lymphoma
<b>Format</b>	Liquid
<b>Size</b>	Predilute: 7 ml, Concentrate: 100 µl, Concentrate: 1 ml
<b>Buffer</b>	Predilute: Antibody Diluent Buffer Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA

<b>Preservative</b>	< 0.1% Sodium Azide
<b>Storage</b>	Store at 2-8°C. Do not freeze.
<b>Ship</b>	Wet ice

## BACKGROUND

<b>Introduction</b>	Cyclin D1 is an essential cell cycle regulator and proto-oncogene. Cyclin D1 staining is a useful tool for investigating cell cycle biology and related cancers. Anti-Cyclin D1 is used for differentiating mantle cell lymphomas (positive stain) from CLL/SLL and follicular lymphomas (negative stain). Hairy cell leukemia and plasma cell myeloma also react lightly to Anti-Cyclin D1.
<b>Keywords</b>	CCND1; cyclin D1; BCL1; PRAD1; U21B31; D11S287E; G1/S-specific cyclin-D1; BCL-1 oncogene; PRAD1 oncogene; B-cell CLL/lymphoma 1; B-cell lymphoma 1 protein;

## GENE INFORMATION

<b>Gene Name</b>	CCND1 cyclin D1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	CCND1
<b>Synonyms</b>	CCND1; cyclin D1; BCL1; PRAD1; U21B31; D11S287E; G1/S-specific cyclin-D1; BCL-1 oncogene; PRAD1 oncogene; B-cell CLL/lymphoma 1; B-cell lymphoma 1 protein;
<b>Entrez Gene ID</b>	<a href="#">595</a>
<b>Protein Refseq</b>	NP_444284
<b>UniProt ID</b>	<a href="#">P24385</a>
<b>Chromosome Location</b>	11q13
<b>Pathway</b>	AMPK signaling pathway; ATF-2 transcription factor network; Acute myeloid leukemia; Androgen receptor signaling pathway; Bladder cancer; C-MYB transcription factor network; Cell Cycle; Cell Cycle, Mitotic;
<b>Function</b>	cyclin-dependent protein serine/threonine kinase regulator activity; enzyme binding; histone deacetylase binding; proline-rich region binding; protein binding; protein complex binding; protein kinase activity; protein kinase binding; transcription corepressor activity; transcription factor binding;