

Mouse Cyclin D1 Monoclonal Antibody | anti-CCND1 antibody

Cyclin D1 (G1-Cyclin & Mantle Cell Marker) Mouse Monoclonal Antibody

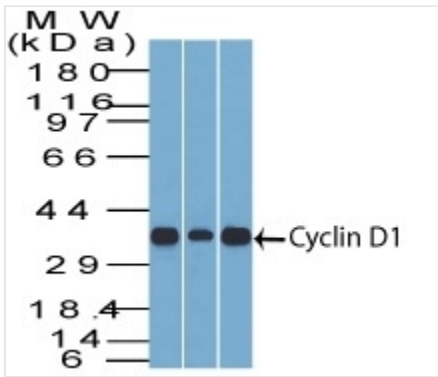
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62521	Mouse	Human, Monkey, Mouse, Rat.Others not known	Immunohistochemistry, Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

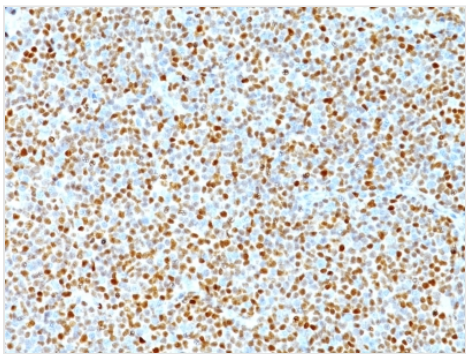
Cyclin D1; Monoclonal Antibody; Cyclin D1 (G1-Cyclin & Mantle Cell Marker) Mouse Monoclonal Antibody; B cell CLL/lymphoma 1; B cell leukemia 1; B-cell lymphoma 1 protein; BCL-1 oncogene; CCND1 protein; CCND1/FSTL3 fusion gene; CCND1/IGHG1 fusion gene CCND1/IGLC1 fusion gene; CCND1/PTH fusion gene; cD1; Cyl 1; G1/S-specific cyclin-D1; Parathyroid adenomatosis 1; PRAD1 oncogene; anti-CCND1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Monkey, Mouse, Rat. Others not known
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	SPM587
Specificity	Recognizes a protein of 36kDa, identified as cyclin D1. Cyclin D1, one of the key cell cycle regulators, is a putative proto-oncogene overexpressed in a wide variety of human neoplasms. This antibody neutralizes the activity of cyclin D1 in vivo. About 60% of mantle cell lymphomas (MCL) contain a t(11; 14)(q13; q32) translocation resulting in over-expression of cyclin D1. This antibody is useful in identifying mantle cell lymphomas (cyclin D1 positive) from CLL/SLL and follicular lymphomas (cyclin D1 negative). Occasionally, hairy cell leukemia and plasma cell myeloma weakly express Cyclin D1.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	295
Applicable Applications for anti-CCND1 antibody	IHC (Immunohistochemistry), WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Cellular Localization	Nuclear
Immunogen	Human recombinant full length cyclin D1 protein
Hu-Chromosome Location	11q13.2
Positive Control	T47D, ZR75, BT474, SKBR3, MCF-7, MDA-MB-453, HT29, Ramos, Jurkat or A431 cells. ~60% of mantle cell lymphomas and ~40% of breast carcinomas are positive.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



WB (Western Blot)
Western Blot of Cyclin D1 in (1) C2C12, (2) HepG2, & (3) NIH3T3 Lysate with Cyclin D1 Ab (SPM587).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Mantle Cell Lymphoma stained with Cyclin D1 Ab (Clone SPM587).

ADDITIONAL INFORMATION

References	Lukas J, et. al. Oncogene, 1994, 9(3):707-18. Gillett C, et. al. Cancer Research, 1994, 54(7):1812-7. Bartkova J, et. al. Journal of Pathology, 1994, 172(3):237-45
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NCBI AND UNIPROT INFORMATION

NCBI GI #	16950655
NCBI GeneID	595
NCBI Accession #	NP_444284.1
NCBI GenBank Nucleotide #	NM_053056.2
UniProt Accession #	P24385; Q6LEF0
Molecular Weight	36kDa
NCBI Official Full Name	G1/S-specific cyclin-D1
NCBI Official Synonym Full Names	cyclin D1
NCBI Official Symbol	CCND1
NCBI Official Synonym Symbols	BCL1; PRAD1; U21B31; D11S287E
NCBI Protein Information	G1/S-specific cyclin-D1
UniProt Protein Name	G1/S-specific cyclin-D1
UniProt Gene Name	CCND1
UniProt Synonym Gene Names	BCL1; PRAD1; BCL-1
UniProt Entry Name	CCND1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.