

Rabbit cyclin D1 Polyclonal Antibody | anti-CCND1 antibody

cyclin D1 (C20) Antibody

CATALOG # AAA63005	HOST Rabbit	REACTIVITY Mouse, rat, human	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

cyclin D1; Polyclonal Antibody; cyclin D1 (C20) Antibody; anti-CCND1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, rat, human
Clonality	Polyclonal
Specificity	Mouse, rat, and human cyclin D1 (weakly cross reactive with cyclin D2)
Form/Format	200 ug/ml rabbit polyclonal IgG in 1 ml PBS containing 0.1 % sodium azide and 0.2% gelatin.
Concentration	0.200 mg/ml (varies by lot)
Sequence Length	295
Applicable Applications for anti-CCND1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Origin	Cyclin D1 (C20) is provided as an affinity purified rabbit polyclonal antibody, raised against a peptide mapping to the carboxy terminus of human cyclin D1.
Immunogen	Synthetic peptide mapping to the carboxy terminus of human cyclin D1.
Preparation and Storage	Store this product at 4 degree C, do not freeze. The product is stable for one year from the date of shipment.

ADDITIONAL INFORMATION

Related Product Information for anti-CCND1 antibody	During each cell cycle cyclins undergo periodic accumulation and destruction. As key regulators of the cell cycle the cyclins control important transitions by activating Cdks (1,2). Early in the G1 phase of the cell cycle cyclin D1 induction is followed by cyclin E induction (3,4). This sequential progression is marked early on in G1 by the activation of Cdk4 and in mid to late G1 by the activation of Cdk2 and the hyperphosphorylation of pRB (3,5). The final transition into S phase is thought to be dependent on the increased expression and association of cyclin E and Cdk2 (5,6).
References	1.) Kim TH, Oh S, Kim SS. 2005. Recombinant human prothrombin kringle-2 induces bovine capillary endothelial cell cycle arrest at G0-G1 phase through inhibition of cyclin D1/CDK4 complex: modulation of reactive oxygen species generation and up-regulation of cyclin-dependent kinase inhibitors. <i>Angiogenesis</i>. 8(4):307-14. 1. Bandara LR, Adamczewski JP, Zamanian M, Poon RY, Hunt T, Thangue NB. 1992. Cyclin A recruits p33cdk2 to the cellular transcription factor DRTF1. <i>J Cell Sci Suppl</i> 16: 77-85.2. Desdouets C, Sobczak-Thépot J, Murphy M, Brechot C. 1995. Cyclin A: Function and expression during cell proliferation. <i>Prog Cell Cycle Res</i> 1:115-123.3. Musgrove EA, Sarcevic B, Sutherland RL. 1996. Inducible expression of cyclin D1 in T-47D human breast cancer cells is sufficient for Cdk2 activation and pRB hyperphosphorylation. <i>J Cell Biochem</i> 60(3): 363-378.4. Geng Y, Whoriskey W, Park MY, Bronson RT, Medema RH, Li T, Weinberg RA, Sicinski P. 1999. Rescue of cyclin D1 deficiency by knockin cyclin E. <i>Cell</i> 97(6): 767-777.5. Prall OW, Sarcevic B, Musgrove EA, Watts CK, Sutherland RL. 1997. Estrogen-induced activation of Cdk4 and Cdk2 during G1-S phase progression is accompanied by increased cyclin D1 expression and decreased cyclin-dependent kinase inhibitor association with cyclin E-Cdk2. <i>J Biol Chem</i> 272(16): 10882-10894.6. Sauer K, Lehner CF. 1995. The role of cyclin E in the regulation of entry into S phase. <i>Prog Cell Cycle Res</i> 1: 125-139.

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	33,729 Da
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; B-cell CLL/lymphoma 1; B-cell lymphoma 1 protein; BCL-1 oncogene; PRAD1 oncogene
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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cyclin-d1-antibody-immunohistochemistry-western-blot-elisa/63005>