

**Cyclin D1 (phospho Thr286) rabbit pAb****Cat#: orb764301 (Manual)**

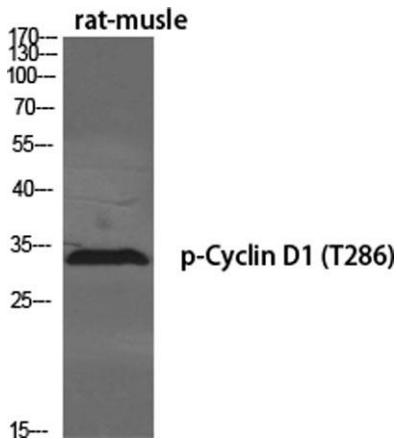
For research use only. Not intended for diagnostic use.

<b>Product Name</b>	Cyclin D1 (phospho Thr286) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human Cyclin D1 around the phosphorylation site of Thr286. AA range:246-295
<b>Specificity</b>	Phospho-Cyclin D1 (T286) Polyclonal Antibody detects endogenous levels of Cyclin D1 protein only when phosphorylated at T286.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	G1/S-specific cyclin-D1
<b>Gene Name</b>	CCND1
<b>Cellular localization</b>	Nucleus . Cytoplasm . Nucleus membrane . Cyclin D-CDK4 complexes accumulate at the nuclear membrane and are then translocated to the nucleus through interaction with KIP/CIP family members. .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

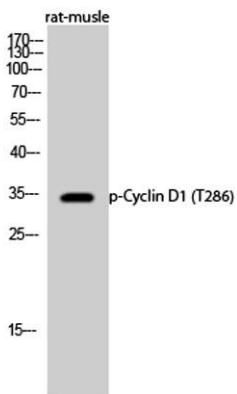
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	33kD
<b>Human Gene ID</b>	595
<b>Human Swiss-Prot Number</b>	P24385
<b>Alternative Names</b>	CCND1; BCL1; PRAD1; G1/S-specific cyclin-D1; B-cell lymphoma 1 protein; BCL-1; BCL-1 oncogene; PRAD1 oncogene

## Background

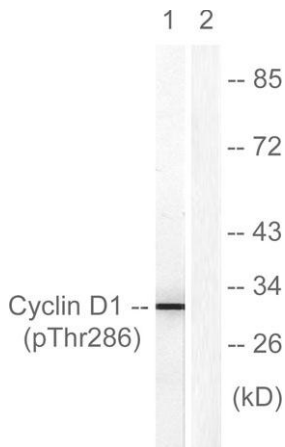
The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance throughout the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with tumor suppressor protein Rb and the expression of this gene is regulated positively by Rb. Mutations, amplification and overexpression of this gene, which alters cell cycle progression, are observed frequently in a variety of tumors and may contribute to tumorigenesis. [provided by RefSeq, Jul 2008],



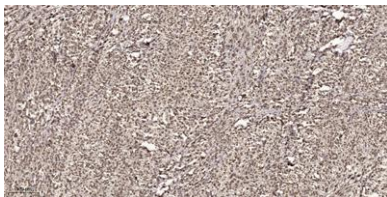
Western Blot analysis of various cells using Phospho-Cyclin D1 (T286) Polyclonal Antibody diluted at 1:500



**Western Blot analysis of rat-muscle cells using Phospho-Cyclin D1 (T286) Polyclonal Antibody diluted at 1:500**



**Western blot analysis of lysates from Jurkat cells treated with EGF 200ng/ml 30', using Cyclin D1 (Phospho-Thr286) Antibody. The lane on the right is blocked with the phospho peptide.**



**Immunohistochemical analysis of paraffin-embedded human small intestinal carcinoma tissue. 1,primary Antibody was diluted at 1:200(4° overnight). 2, Sodium citrate pH 6.0 was used for antigen retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200**