

Cyclin D1 (phospho Thr286) Polyclonal Antibody

Catalog No: YP0297

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: Cyclin D1

Fields: >>Endocrine resistance;>>FoxO signaling pathway;>>Cell cycle;>>p53

signaling pathway;>>PI3K-Akt signaling pathway;>>AMPK signaling

pathway;>>Cellular senescence;>>Wnt signaling pathway;>>Hedgehog signaling

pathway;>>Apelin signaling pathway;>>Hippo signaling pathway;>>Focal

adhesion;>>Tight junction;>>JAK-STAT signaling pathway;>>Prolactin signaling

pathway;>>Thyroid hormone signaling pathway;>>Oxytocin signaling

pathway;>>AGE-RAGE signaling pathway in diabetic complications;>>Cushing

syndrome;>>Alcoholic liver disease;>>Hepatitis C;>>Measles;>>Human cytomegalovirus infection;>>Human papillomavirus infection;>>Human T-cell

leukemia virus 1 infection;>>Kaposi sarcoma-associated herpesvirus infection;>>Epstein-Barr virus infection;>>Pathways in cancer;>>Viral

carcinogenesis;>>Proteoglycans in cancer;>>MicroRNAs in cancer;>>Chemical

carcinogenesis, >> roteogrycans in cancer, >> which mas in cancer, >> Pancreatic

cancer;>>Endometrial cancer;>>Glioma;>>Prostate cancer;>>Thyroid

cancer;>>Melanoma;>>Bla

Gene Name: CCND1

Protein Name: G1/S-specific cyclin-D1

P25322

Human Gene ld: 595

Human Swiss Prot P24385

No:

Mouse Gene ld: 12443

Mouse Swiss Prot

No:

Rat Gene ld: 58919

Rat Swiss Prot No: P39948

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Immunogen: The antiserum was produced against synthesized peptide derived from human

Cyclin D1 around the phosphorylation site of Thr286. AA range:246-295

Specificity: Phospho-Cyclin D1 (T286) Polyclonal Antibody detects endogenous levels of

Cyclin D1 protein only when phosphorylated at T286.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 33kD

Cell Pathway: Cell_Cycle_G1S;Cell_Cycle_G2M_DNA;p53;WNT;WNT-T CELLFocal

adhesion; Jak_STAT; Pathways in cancer; Colorectal cancer; Pancreatic

cancer; Endometrial cancer; Glioma; Prostate cancer; Thyroid cancer; Melanoma; Bla

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],

Function: disease: A chromosomal aberration involving CCND1 may be a cause of B-

lymphocytic malignancy, particularly mantle-cell lymphoma (MCL). Translocation t(11;14)(q13;q32) with immunoglobulin gene regions. Activation of CCND1 may be oncogenic by directly altering progression through the cell cycle.,disease:A chromosomal aberration involving CCND1 may be a cause of multiple myeloma [MIM:254500]. Translocation t(11;14)(q13;q32) with the lgH locus.,disease:A chromosomal aberration involving CCND1 may be a cause of parathyroid adenomas [MIM:168461]. Translocation t(11;11)(q13;p15) with the parathyroid

hormone (PTH) enhancer.,function:Essential for the control of the cell cycle at the

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G1/S (start) transition.,online information: The Singapore human mutation and polymorphism database, PTM: Following DNA damage it is ubiquitinated by some SCF (SKP1-cullin-F-box) protein ligase complex containing FBXO31.

Subcellular Location:

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. .

Expression : Brain, Placenta, Tongue,

Tag: orthogonal

Sort : 4718

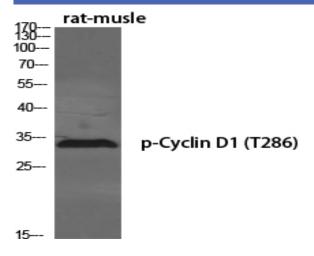
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No4: 1

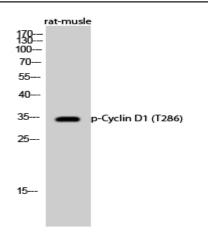
Host: Rabbit

Modifications: Phospho

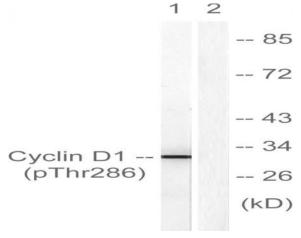
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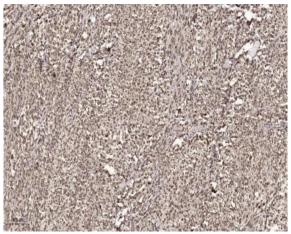
Western Blot analysis of various cells using Phospho-Cyclin D1 (T286) Polyclonal Antibody diluted at 1:500



Western Blot analysis of rat-musle 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