

Cyclin D1 (Phospho Thr286) Rabbit pAb

CatalogNo: YP0297 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 33kD (Observed)

Isotype

- IgG

Storage

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

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

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:10000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

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. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):ACTPT

Target Information

Gene name CCND1

Protein Name G1/S-specific cyclin-D1

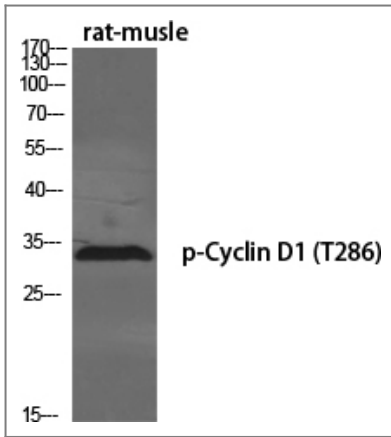
| Organism | Gene ID | UniProt ID |
|----------|-------------------------|--------------------------|
| Human | 595 ; | P24385 ; |
| Mouse | 12443 ; | P25322 ; |
| Rat | 58919 ; | P39948 ; |

Cellular Localization 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. .

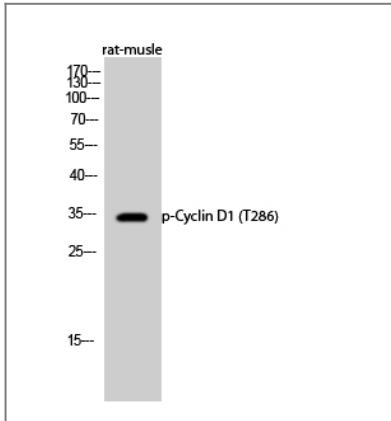
Tissue specificity Brain ,Placenta ,Tongue ,

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 IgH 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 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. Ubiquitination leads to its degradation and G1 arrest. ,PTM:Phosphorylation at Thr-286 by MAP kinases is required for ubiquitination and degradation following DNA damage. It probably plays an essential role for recognition by the FBXO31 component of SCF (SKP1-cullin-F-box) protein ligase complex. ,similarity:Belongs to the cyclin family. ,similarity:Belongs to the cyclin family. Cyclin D subfamily. ,subunit:Interacts with the CDK4 and CDK6 protein kinases to form a serine/threonine kinase holoenzyme complex. The cyclin subunit imparts substrate specificity to the complex. ,

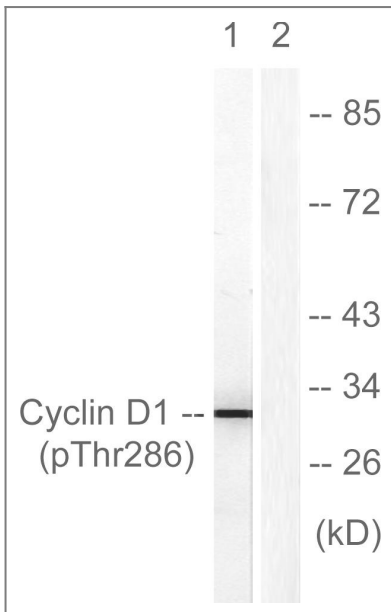
Validation Data



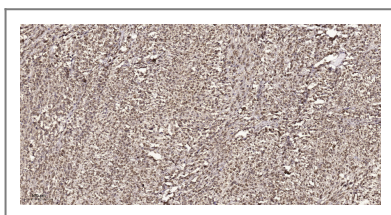
Western Blot analysis of various cells using Phospho-Cyclin D1 (T286) Polyclonal Antibody diluted at 1:500



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°C overnight). 2, Sodium citrate pH 6.0 was used for antigen retrieval (>98°C,20min). 3,Secondary antibody was diluted at 1:200

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Please scan the QR code to access additional product information:
Cyclin D1 (Phospho Thr286) Rabbit pAb

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