

# Cyclin D1 (PT0238R) PT™ Rabbit mAb

CatalogNo: YM8149 **Recombinant** 

## Key Features

### Host Species

- Rabbit

### Reactivity

- Human, Mouse, Rat, Rabbit, Pig, Geese

### Applications

- WB, IHC, IF, IP, ELISA

### MW

- 34kD (Calculated)
- 36kD (Observed)

### Isotype

- IgG, Kappa

## Storage

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

**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

## Recommended Dilution Ratios

IHC 1:200-1:1000

WB 1:1000-1:5000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200,

## Basic Information

**Clonality** Monoclonal

**Clone Number** PT0238R

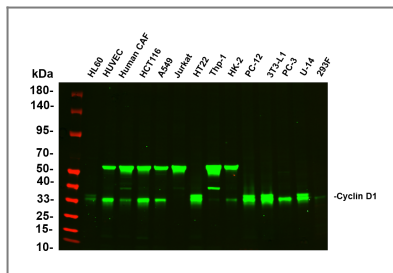
## Immunogen Information

**Specificity** Endogenous

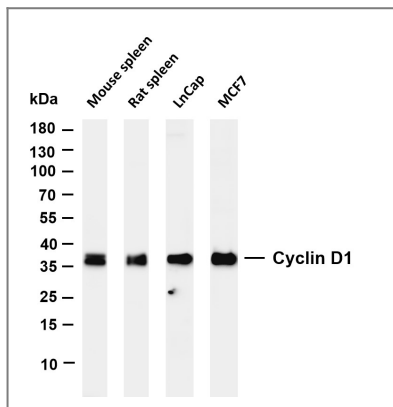
## | Target Information

Gene name	CCND1		
Protein Name	G1/S-specific cyclin-D1		
	Organism	Gene ID	UniProt ID
	Human	<a href="#">595</a> ;	<a href="#">P24385</a> ;
	Mouse	<a href="#">12443</a> ;	<a href="#">P25322</a> ;
	Rat	<a href="#">58919</a> ;	<a href="#">P39948</a> ;
Cellular Localization	Nucleus		
Tissue specificity	Brain,Placenta,Tongue,		
Function	<p>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.,</p>		

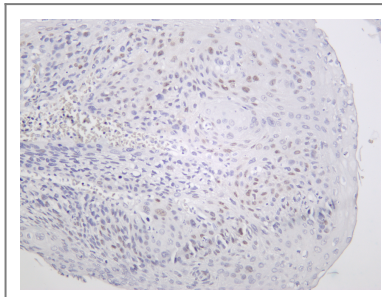
## | Validation Data



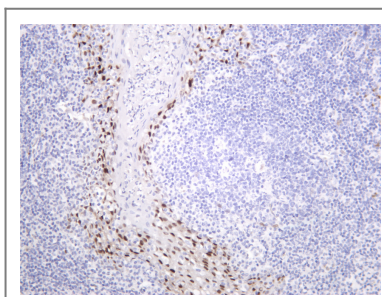
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:5000 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody(Cat:RS23920) was used to detect the antibody. Lane1: HL60 - Human promyelocytic leukemia cell Lane2: HUVEC - Human umbilical vein endothelial cell Lane3: Human CAF - Human cancer-associated fibroblast Lane4: HCT116 - Human colorectal carcinoma Lane5: A549 - Human lung carcinoma Lane6: Jurkat - Human T lymphocyte leukemia Lane7: HT22 - Mouse hippocampal neuronal Lane8: Thp-1 - Human monocytic leukemia Lane9: HK-2 - Human proximal tubular epithelial Lane10: PC-12 - Rat adrenal pheochromocytoma Lane11: 3T3-L1 - Mouse embryonic fibroblast Lane12: PC-3 - Human prostate adenocarcinoma Lane13: U-14 - Mouse cervical carcinoma Lane14: 293F - HEK293 derivative, adapted for suspension culture Predicted band size: 36kDa Observed band size: 36kDa



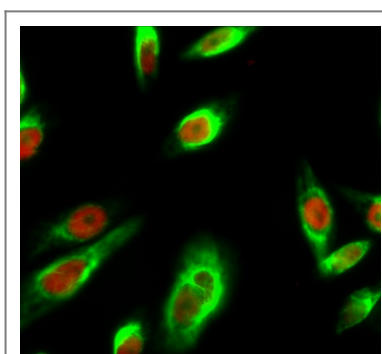
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Cyclin D1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Mosue spleen Lane 2: Rat spleen Lane 3: LnCap Lane 4: MCF7 Predicted band size: 34kDa Observed band size: 36kDa



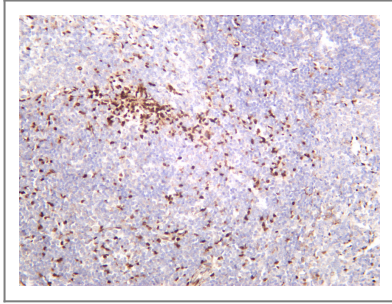
Human esophagus was stained with Anti-Cyclin D1 rabbit antibody



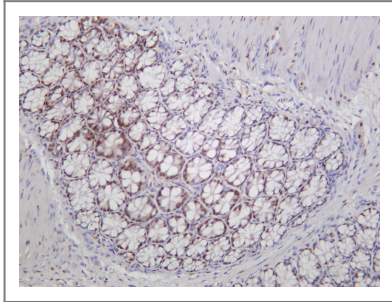
Human tonsil was stained with Anti-Cyclin D1 rabbit antibody



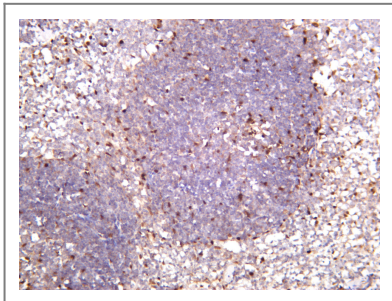
Immunofluorescence analysis of HeLa cell. 1,Cyclin D1 Antibody(red) was diluted at 1:200(4° overnight). GAPDH Monoclonal Antibody(2B8)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 was diluted at 1:1000(room temperature, 50min).



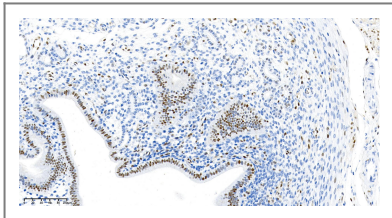
Rat spleen was stained with anti-Cyclin D1 rabbit antibody



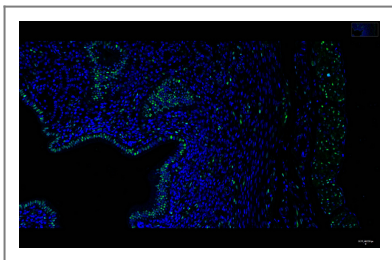
Mouse colon was stained with anti-Cyclin D1 rabbit antibody



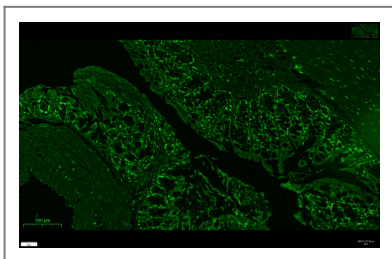
Mouse spleen was stained with anti-Cyclin D1 rabbit antibody



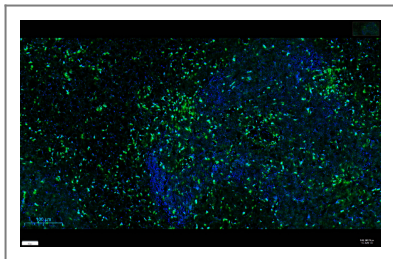
Mouse uterus was stained with anti-Cyclin D1 Rabbit antibody



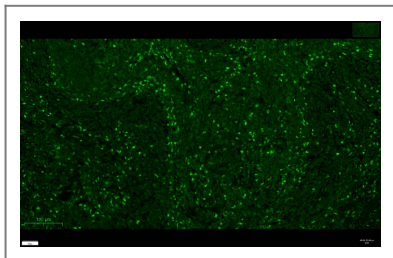
Mouse uterus was stained with anti-Cyclin D1 Rabbit antibody



Mouse colon was stained with Anti-Cyclin D1 rabbit antibody



Mouse spleen was stained with Anti-Cyclin D1 rabbit antibody



Rat spleen was stained with Anti-Cyclin D1 rabbit antibody

## | Contact information

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**Cyclin D1 (PT0238R)**  
**PT™ Rabbit mAb**

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