



## Cyclin D1 (ANT0038R) Rabbit mAb

CatalogNo: ANT8149 **Recombinant** 

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA  
Quantity : 100 ug/vial

### Host Species

- Rabbit
- Human,Mouse,Rat,

### Reactivity

- WB,IHC,IF,IP,ELISA

### Applications

### MW

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

### Isotype

- IgG,Kappa

## 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,

## Storage

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

## Basic Information

**Clonality** Monoclonal

**Clone Number** ANT0038R

## Target Information

## Immunogen Information Specificity

Endogenous

**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>

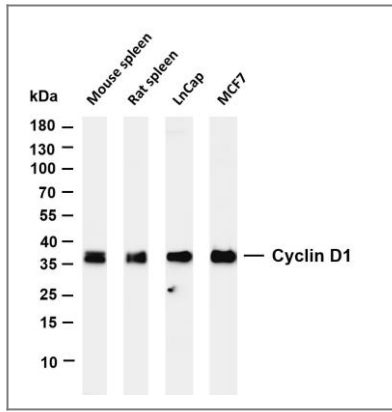
**Cellular Localization** Nucleus

**Tissue specificity** Brain,Placenta,Tongue,

**Function** 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 (ANTH) 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.,

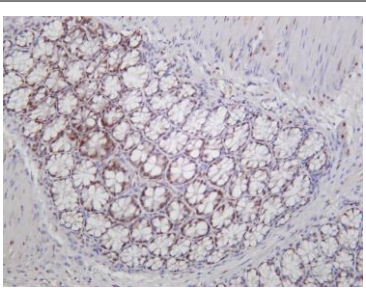
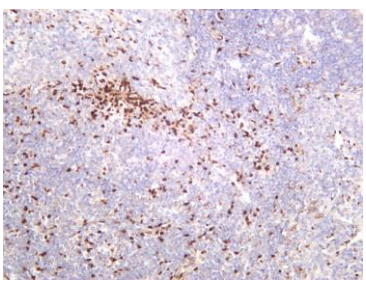
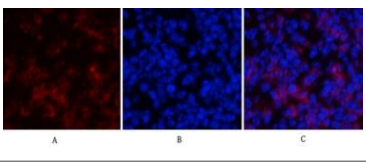
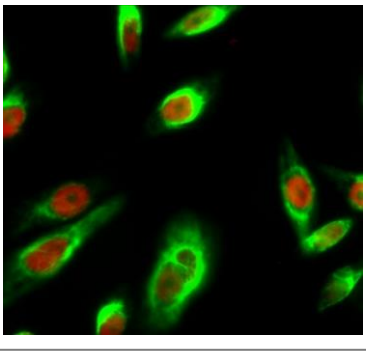
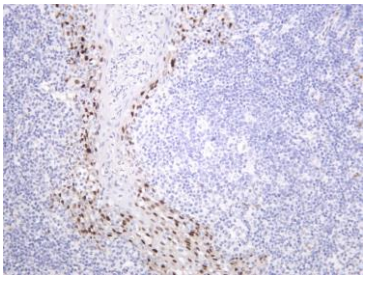
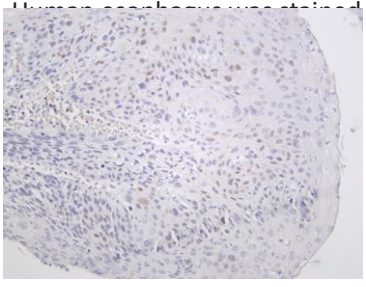
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## Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Cyclin D1 (ANT0038R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Mouse spleen Lane 2: Rat spleen Lane 3: LnCap Lane 4: MCF7 Predicted band size: 34kDa Observed band size: 36kDa

Human esophagus stained with Anti-Cyclin D1 (ANT0038R) rabbit antibody

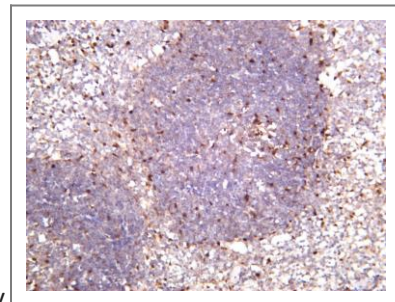


Human tonsil was stained with Anti-Cyclin D1 (ANT0038R) rabbit antibody

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).

Immunofluorescence analysis of mouse-spleen tissue. 1, Cyclin D1 Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

Rat spleen was stained with anti-Cyclin D1 (ANT0038R) rabbit antibody



Mouse colon was stained with anti-Cyclin D1 (ANT0038R) rabbit antibody  
spleen was stained with anti-Cyclin D1 (ANT0038R) rabbit antibody

Mouse

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