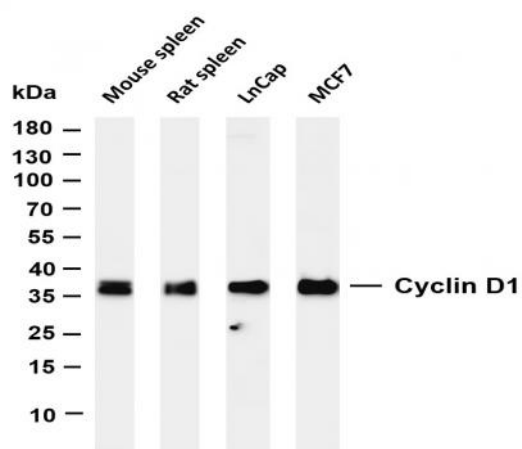


Cyclin D1 (PT0238R) PT® Rabbit mAb

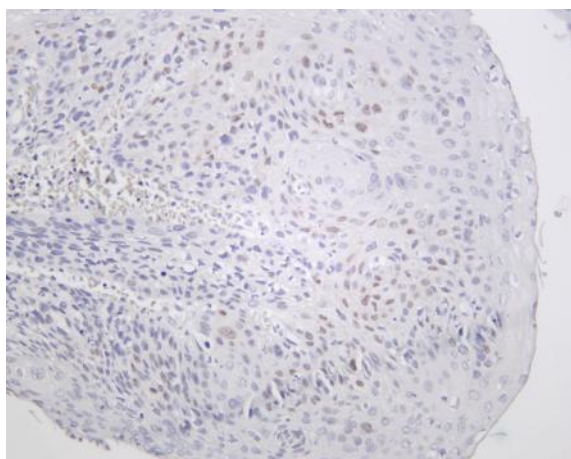
Catalog No :	YM8149
Reactivity :	Human;Mouse;Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	Cyclin D1
Fields :	>>Endocrine resistance;>>FoxO signaling pathway;>>Cell cycle;>>p53 signaling pathway;>>PI3K-Akt signaling pathway;>>AMPK signaling pathway;>>Cellular senescence;>>Wnt signaling pathway;>>Hedgehog 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 - receptor activation;>>Colorectal cancer;>>Pancreatic cancer;>>Endometrial cancer;>>Glioma;>>Prostate cancer;>>Thyroid cancer;>>Melanoma;>>Bla
Gene Name :	CCND1
Protein Name :	G1/S-specific cyclin-D1
Human Gene Id :	595
Human Swiss Prot No :	P24385
Mouse Gene Id :	12443
Mouse Swiss Prot No :	P25322
Rat Gene Id :	58919
Rat Swiss Prot No :	P39948

Specificity :	<u>endogenous</u>
Formulation :	<u>PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA</u>
Source :	<u>Monoclonal, rabbit, IgG, Kappa</u>
Dilution :	<u>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,</u>
Purification :	<u>Protein A</u>
Storage Stability :	<u>-15°C to -25°C/1 year(Do not lower than -25°C)</u>
Molecularweight :	<u>34kD</u>
Observed Band :	<u>36kD</u>
Background :	<p>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],</p>
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.</p>
Subcellular Location :	<u>Nucleus</u>
Expression :	<u>Brain,Placenta,Tongue,</u>

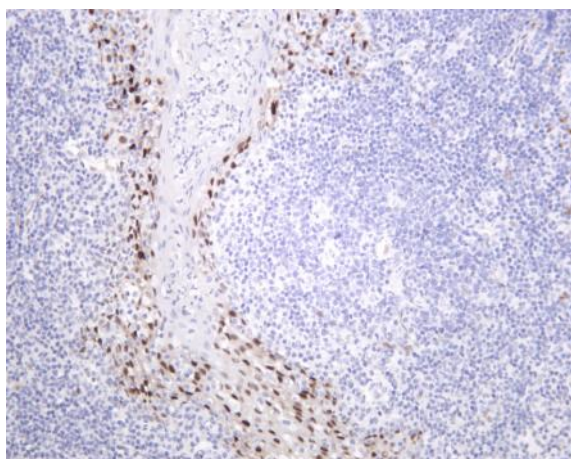
Products Images



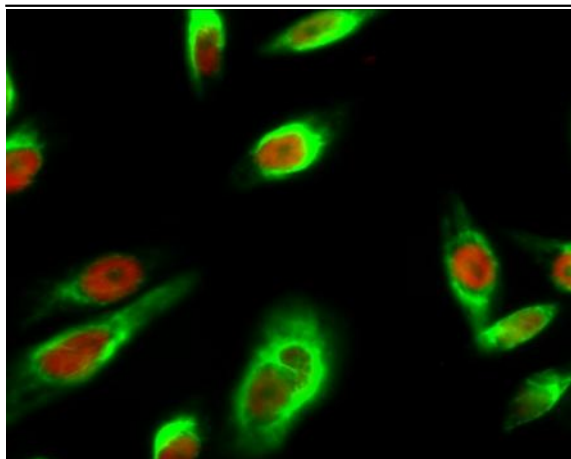
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Cyclin D1 (PT0238R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Mouse spleen Lane 2: Rat spleen Lane 3: LnCap Lane 4: MCF7 Predicted band size: 34kDa Observed band size: 36kDa



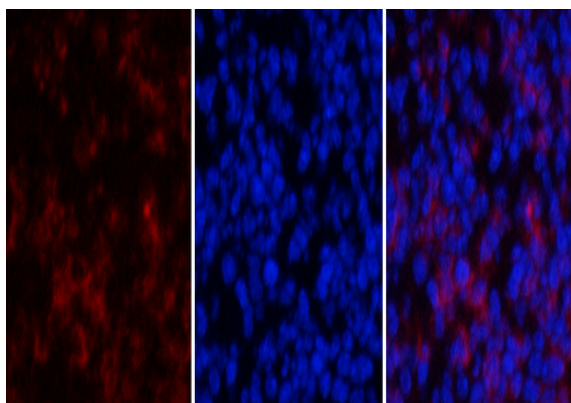
Human esophagus was stained with Anti-Cyclin D1 (PT0238R) rabbit antibody



Human tonsil was stained with Anti-Cyclin D1 (PT0238R) 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).

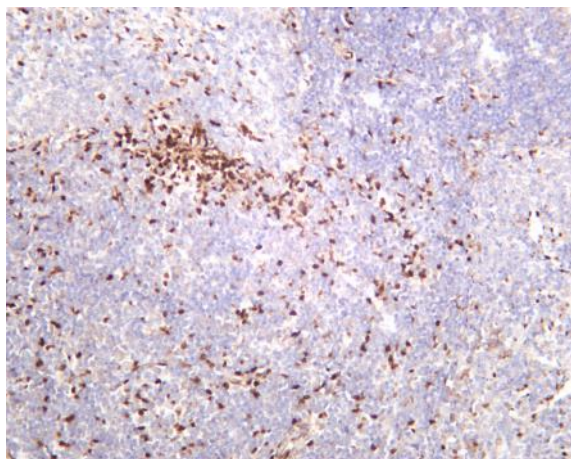


Immunofluorescence analysis of mouse-spleen tissue. 1, Cyclin D1 Antibody (red) was diluted at 1:200 (4° C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

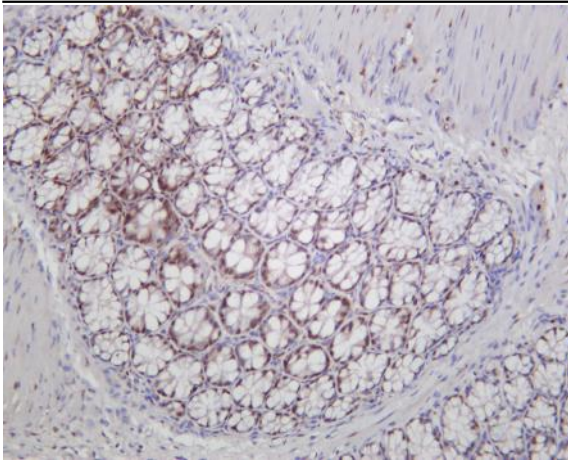
A

B

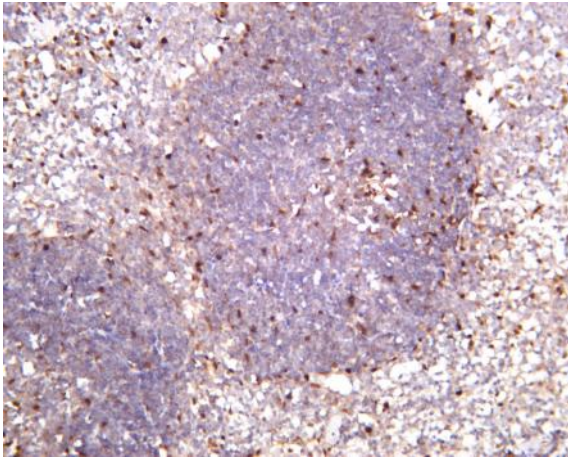
C



Rat spleen was stained with anti-Cyclin D1 (PT0238R) rabbit antibody



Mouse colon was stained with anti-Cyclin D1 (PT0238R) rabbit antibody



Mouse spleen was stained with anti-Cyclin D1 (PT0238R) rabbit antibody