

For Research Use Only

Cyclin D1 Polyclonal antibody

Catalog Number: 26939-1-AP

Featured Product

441 Publications



Basic Information

Catalog Number: 26939-1-AP	GenBank Accession Number: BC000076	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 500 ug/ml by Nanodrop;	GeneID (NCBI): 595	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:750-1:3000 IF/ICC 1:400-1:1600
Source: Rabbit	UNIPROT ID: P24385	
Isotype: IgG	Full Name: cyclin D1	
Immunogen Catalog Number: AG25393	Calculated MW: 295 aa, 34 kDa	
	Observed MW: 34 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : LNCaP cells, C6 cells, MCF-7 cells, NIH/3T3 cells, Neuro-2a cells, mouse lung tissue
Cited Applications: WB, IHC, IF	IHC : human ovary tumor tissue, human oesophagus cancer tissue, human lung cancer tissue, mouse spleen tissue, mouse pancreas tissue
Species Specificity: human, mouse, rat	IF/ICC : MCF-7 cells, NIH/3T3 cells
Cited Species: human, mouse, rat, pig, canine, bovine, sheep, goat	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

CCND1 (cyclin D1), also known as PRAD1 or BCL1, belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance throughout the cell cycle. CCND1 forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. The CCND1 gene, located on 11q13 has been reported to be overexpressed in mantle cell lymphoma (MCL) due to the chromosomal translocation. CCND1 has been shown to interact with tumor suppressor protein Rb and the expression of this gene is regulated positively by Rb. Over-expression of CCND1 is known to correlate with the early onset of cancer and risk of tumor progression and metastasis.

Notable Publications

Author	Pubmed ID	Journal	Application
Zhou Yang	32993738	J Exp Clin Cancer Res	WB
Pengyun Li	36130940	Cell Death Dis	WB
Siwen Zhang	34546849	Bioengineered	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

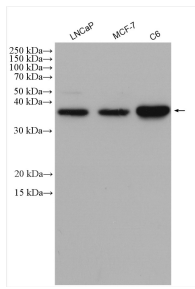
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

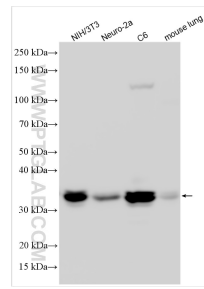
E: proteintech@ptglab.com
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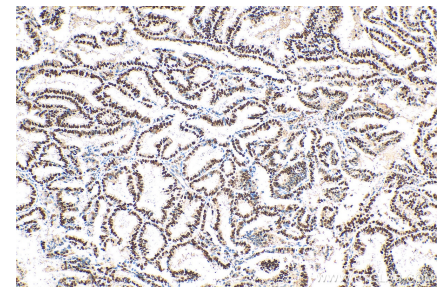
Selected Validation Data



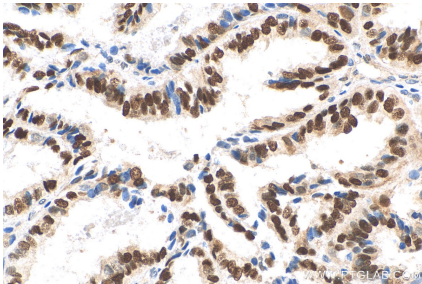
Various lysates were subjected to SDS PAGE followed by western blot with 26939-1-AP (Cyclin D1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



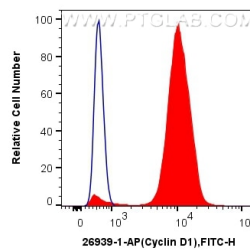
NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 26939-1-AP (Cyclin D1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



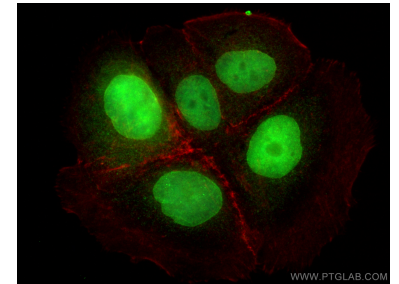
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 26939-1-AP (Cyclin D1 antibody) at dilution of 1:1500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



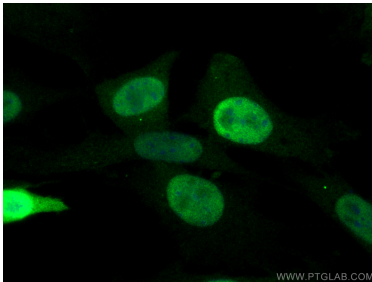
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 26939-1-AP (Cyclin D1 antibody) at dilution of 1:1500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



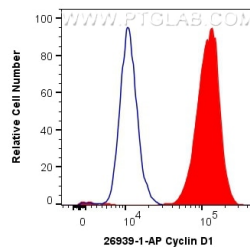
1×10^6 SH-SY5Y cells were intracellularly stained with 0.4 μ g Anti-Human Cyclin D1 (26939-1-AP) and CoraLite[®]488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 μ g Rabbit IgG control Rabbit PolyAb (30000-0-AP, Clone:) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using Cyclin D1 antibody (26939-1-AP) at dilution of 1:800 and CoraLite[®]488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), (CL594-Phalloidin, red).



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using Cyclin D1 antibody (26939-1-AP) at dilution of 1:200 and CoraLite[®]488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1×10^6 MCF-7 cells were intracellularly stained with 0.4 μ g Anti-Human Cyclin D1 (26939-1-AP) and CoraLite[®]488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 μ g Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).