For Research Use Only

Cyclin D1 Monoclonal antibody

Catalog Number:60186-1-Ig Featured Product 753 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
60186-1-Ig

Concentration:
1500 ug/ml

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG0689

GenBank Accession Number:
BC000076

GeneID (NCBI):
595

UNIPROT ID:
P24385

Full Name:
cyclin D1

Calculated MW:
295 aa, 34 kDa

Observed MW:
34 kDa

Purification Method:
Protein A purification

CloneNo.:
2G3G5

Recommended Dilutions:
WB 1:5000-1:50000

Applications

Tested Applications:
WB, FC (Intra), ELISA

Cited Applications:
WB, IF, IP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, rabbit, zebrafish, bovine, hamster, goat

Positive Controls:

WB : MCF-7 cells, A549 cells, HeLa cells, NIH/3T3 cells, RAW 264.7 cells, A431 cells, SW 1990 cells, HepG2 cells, U2OS cells, HCT 116 cells, SK-N-SH cells, HSC-T6 cells, PC-12 cells

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

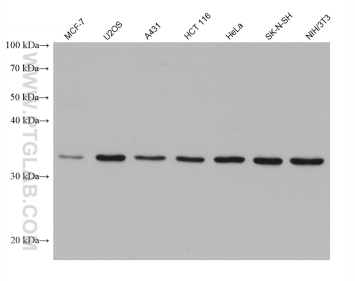
Author	Pubmed ID	Journal	Application
Ji Xing	36230734	Cancers (Basel)	WB
Yong-Li Zhang	34679694	Antioxidants (Basel)	WB
Wei-Liang Ye	26419507	Sci Rep	WB

Storage

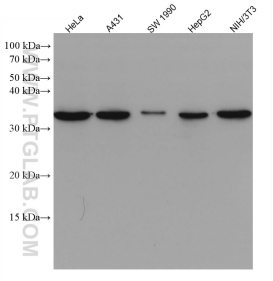
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

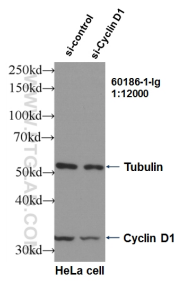
Selected Validation Data



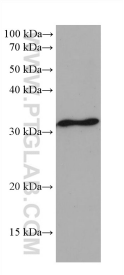
MCF-7 cells were subjected to SDS PAGE followed by western blot with 60186-1-Ig (Cyclin D1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



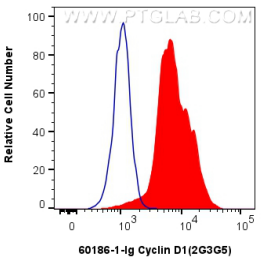
Various lysates were subjected to SDS PAGE followed by western blot with 60186-1-Ig (Cyclin D1 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



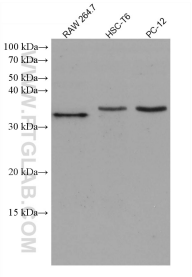
WB result of Cyclin D1 antibody (60186-1-Ig, 1:12,000) with si-Control and si-Cyclin D1 transfected HeLa cells.



RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 60186-1-Ig (Cyclin D1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



1x10^6 SH-SY5Y cells were intracellularly stained with 0.25 ug Cyclin D1 Monoclonal antibody (60186-1-Ig, Clone:2G3G5) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1) (red), or 0.25 ug Mouse IgG2b isotype control Mouse McAb (66360-3-Ig, Clone: 11B8C4) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Various lysates were subjected to SDS PAGE followed by western blot with 60186-1-Ig (Cyclin D1 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.