

For Research Use Only

Cyclin D3 Monoclonal ANTIBODY



Catalog Number: 66357-1-Ig

Featured Product

Basic Information

Catalog Number:
66357-1-Ig

Size:
150 µg/150 µl

Source:
Mouse

Isotype:
IgG1

Purification Method:
Protein G purification

Immunogen Catalog Number:
AG22825

GenBank Accession Number:
BC011616

GeneID (NCBI):
896

Full Name:
cyclin D3

Calculated MW:
33 kDa

Observed MW:
33-35 kDa

Recommended Dilutions:
WB 1:1000-1:8000
IHC 1:50-1:500

Applications

Tested Applications:
IHC, WB, ELISA

Species Specificity:
human

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

Positive Controls:

WB : Raji cells; Jurkat cells, HL-60 cells, HEK-293 cells, K-562 cells

IHC : human pancreas cancer tissue;

Background Information

Cyclin D3 belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through 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 and be involved in the phosphorylation of tumor suppressor protein Rb. The CDK4 activity associated with this cyclin was reported to be necessary for cell cycle progression through G2 phase into mitosis after UV radiation.

Notable Publications

Author	Pubmed ID	Journal	Application
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Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

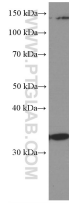
For technical support and original validation data for this product please contact:

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

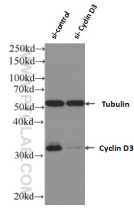
E: proteintech@ptglab.com
W: ptglab.com

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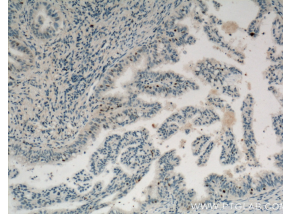
Selected Validation Data



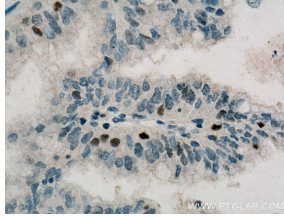
Raji cells were subjected to SDS PAGE followed by western blot with 66357-1-Ig(Cyclin D3 Antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours



WB result of Cyclin D3 antibody (66357-1-Ig; 1:1500; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cyclin D3 transfected Jurkat cells



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 66357-1-Ig(Cyclin D3 Antibody) at dilution of 1:200 (under 10x lens), heat mediated antigen retrieved with Tris-EDTA buffer(pH9).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 66357-1-Ig(Cyclin D3 Antibody) at dilution of 1:200 (under 40x lens), heat mediated antigen retrieved with Tris-EDTA buffer(pH9).