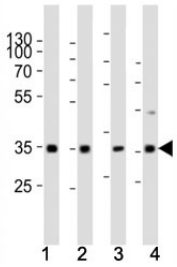
Cyclin D3 Antibody / CCND3 (F53065)

Catalog No.	Formulation	Size
F53065-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F53065-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P48961
Applications	Western Blot : 1:500-1:1000
Limitations	This Cyclin D3 antibody is available for research use only.



Western blot analysis of lysate from (1) human HeLa cell line, (2) mouse spleen, (3) rat lung, (4) rat stomach tissue using Cyclin D3 antibody at 1:1000. Predicted molecular weight ~33 kDa.

Description

Regulatory component of the cyclin D3-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G(1)/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase. Hypophosphorylates RB1 in early G(1) phase. Cyclin D-CDK4 complexes are major integrators of various mitogenenic and antimitogenic signals. Also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D3/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.

Application Notes

Titration of the Cyclin D3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This Cyclin D3 antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 33-66 amino acids from the N-terminal region of rat Ccnd3.

Storage

Aliquot the Cyclin D3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.