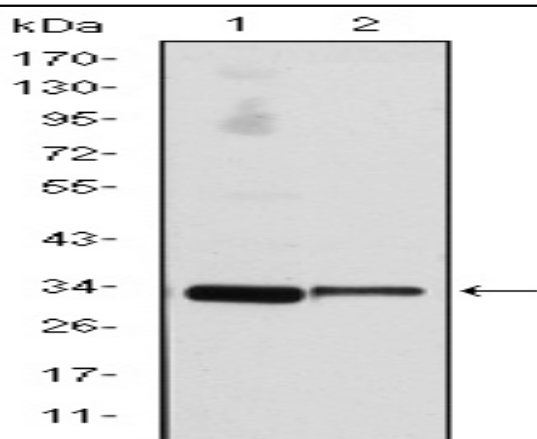


Cyclin D3 Monoclonal Antibody

Catalog No :	YM0177
Reactivity :	Human;Mouse
Applications :	WB;ELISA
Target :	Cyclin D3
Fields :	>>Cell cycle;>>p53 signaling pathway;>>PI3K-Akt signaling pathway;>>Cellular senescence;>>Wnt signaling pathway;>>Hippo signaling pathway;>>Focal adhesion;>>JAK-STAT signaling pathway;>>Measles;>>Influenza A;>>Human papillomavirus infection;>>Human T-cell leukemia virus 1 infection;>>Epstein-Barr virus infection;>>Pathways in cancer;>>Viral carcinogenesis;>>Chemical carcinogenesis - receptor activation
Gene Name :	CCND3
Protein Name :	G1/S-specific cyclin-D3
Human Gene Id :	896
Human Swiss Prot No :	P30281
Mouse Gene Id :	12445
Mouse Swiss Prot No :	P30282
Immunogen :	Purified recombinant fragment of human Cyclin D3 expressed in E. Coli.
Specificity :	Cyclin D3 Monoclonal Antibody detects endogenous levels of Cyclin D3 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification

Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	33kD
Cell Pathway :	Cell_Cycle_G1S;Cell_Cycle_G2M_DNA;p53;WNT;WNT-T CELLFocal adhesion;Jak_STAT;
P References :	1. Blood. 2008 Jun 15;111(12):5683-90. 2. Pathol Res Pract. 2008;204(8):589-97.
Background :	The protein encoded by this gene 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. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008],
Function :	function:Essential for the control of the cell cycle at the G1/S (start) transition. Potentiates the transcriptional activity of ATF5.,similarity:Belongs to the cyclin family.,similarity:Belongs to the cyclin family. Cyclin D subfamily.,subunit:Interacts with the CDK4 and CDK6 protein kinases to form a serine/threonine kinase holoenzyme complex. The cyclin subunit imparts substrate specificity to the complex. Interacts with ATF5. Interacts with EIF3K.,
Subcellular Location :	Nucleus . Cytoplasm .
Expression :	Brain,Lung,Placenta,Synovial membrane tissue,Umbilical cord blood,

Products Images



Western Blot analysis using Cyclin D3 Monoclonal Antibody against NIH/3T3 (1) and Jurkat (2) cell lysate.

