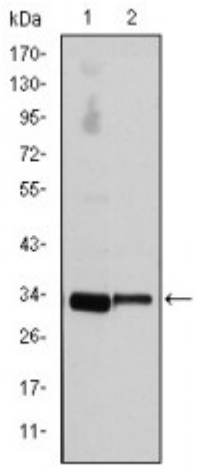
Anti-Cyclin D3 antibody



Description	Mouse monoclonal to Cyclin D3.

Model	STJ97979
Host	Mouse
Reactivity	Human, Mouse
Applications	ELISA, WB
Immunogen	Purified recombinant fragment of human Cyclin D3 expressed in E. Coli.
Gene ID	896
Gene Symbol	CCND3
Dilution range	WB 1:500-1:2000ELISA 1:10000
Specificity	Cyclin D3 Monoclonal Antibody detects endogenous levels of Cyclin D3 protein.
Purification	Affinity purification
Clone ID	6H4
Note	For Research Use Only (RUO).
Protein Name	G1/S-specific cyclin-D3
Clonality	Monoclonal
Conjugation	Unconjugated
Isotype	IgG1
Formulation	Ascitic fluid containing 0.03% sodium azide.

Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:1585OMIM:123834
Alternative Names	G1/S-specific cyclin-D3
Function	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.
Cellular Localization	Nucleus Cytoplasm Membrane. Cyclin D-CDK4 complexes accumulate at the nuclear membrane and are then translocated to the nucleus through interaction with KIP/CIP family members.
Post-translational Modifications	Polyubiquitinated by the SCF(FBXL2) complex, leading to proteasomal degradation.