

**Cyclin D2 mouse mAb**

<b>Catalog No :</b>	YM1276
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB
<b>Target :</b>	Cyclin D2
<b>Fields :</b>	>>FoxO signaling pathway;>>Cell cycle;>>p53 signaling pathway;>>PI3K-Akt signaling pathway;>>Cellular senescence;>>Wnt signaling pathway;>>Hedgehog signaling pathway;>>Hippo signaling pathway;>>Focal adhesion;>>JAK-STAT signaling pathway;>>Prolactin signaling pathway;>>Measles;>>Human papillomavirus infection;>>Human T-cell leukemia virus 1 infection;>>Epstein-Barr virus infection;>>Pathways in cancer;>>Transcriptional misregulation in cancer;>>Viral carcinogenesis;>>MicroRNAs in cancer
<b>Gene Name :</b>	ccnd2
<b>Human Gene Id :</b>	894
<b>Human Swiss Prot No :</b>	P30279
<b>Mouse Swiss Prot No :</b>	P30280
<b>Immunogen :</b>	Purified recombinant human Cyclin D2 protein fragments expressed in E.coli.
<b>Specificity :</b>	This antibody detects over-expressed levels of Cyclin D2 and does not cross-react with related proteins.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	wb 1:1000
<b>Purification :</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.  1 mg/ml

**Storage & Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 38kD

**Cell Pathway :** Cell\_Cycle\_G1S;Cell\_Cycle\_G2M\_DNA;p53;WNT;WNT-T CELLFocal adhesion;Jak\_STAT;

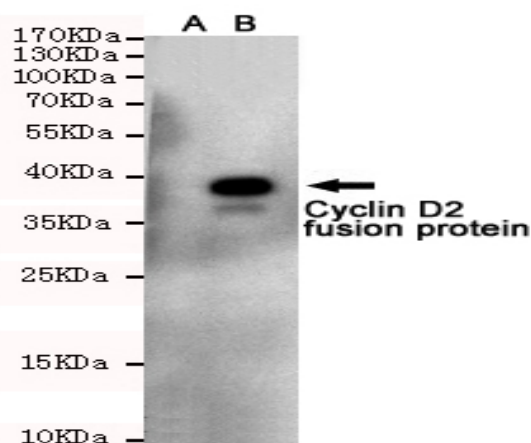
**Background :** The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with CDK4 or CDK6 and functions as a regulatory subunit of the complex, 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. Knockout studies of the homologous gene in mouse suggest the essential roles of this gene in ovarian granulosa and germ cell proliferation. High level expression of this gene was observed in ovarian and testicular tumors. Mutations in this gene are associated with megalencep

**Function :** function:Essential for the control of the cell cycle at the G1/S (start) transition.,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.,

**Subcellular Location :** Nucleus . Cytoplasm . Nucleus membrane . Cyclin D-CDK4 complexes accumulate at the nuclear membrane and are then translocated into the nucleus through interaction with KIP/CIP family members. .; [Isoform 2]: Cytoplasm .

**Expression :** Bone marrow,Heart,Placenta,Uterus,

## Products Images



Western blot detection of Cyclin D2 in CHO-K1 cell lysate(A)and CHO-K1 transfected by Cyclin D2-fragment EGFP fusion protein(B)cell lysate using Cyclin D2 mouse mAb (1:1000 diluted).Predicted band size:38KDa.Observed band size:38KDa.