

Anti-Cyclin D2 Antibody (Monoclonal, DCS-3)

Catalog # ABO10426

Product Information

Application	WB, ICC
Primary Accession	Q04827
Host	Mouse
Isotype	Mouse IgG2a
Reactivity	Human, Mouse
Clonality	Monoclonal
Format	Lyophilized
Description	Mouse IgG monoclonal antibody for Cyclin D2, cyclin D2 (CCND2) detection. Tested with WB, ICC in Human;mouse. No cross reactivity with other proteins.
Reconstitution	Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Additional Information

Gene ID	64033
Other Names	G1/S-specific cyclin-D2, Vin-1 proto-oncogene, Ccnd2, Vin-1
Calculated MW	32826
Application Details	Immunocytochemistry , 1 µg/ml, Human, mouse, - Western blot, 2-4 µg/ml, Human, mouse
Subcellular Localization	Nucleus . Cytoplasm . Membrane . Cyclin D-CDK4 complexes accumulate at the nuclear membrane and are then translocated into the nucleus through interaction with KIP/CIP family members. .
Source	Eukaryota
Protein Name	G1/S-specific cyclin-D2
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.
Clone Names	DCS-3
Immunogen	Recombinant human cyclin D2 protein.
Purification	Ascites
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated

Sequence Similarities

freezing and thawing.
Belongs to the cyclin family. Cyclin D subfamily.

Protein Information

Name Ccnd2

Synonyms Vin-1

Function Regulatory component of the cyclin D2-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 mitogenic and antimitogenic signals.

Cellular Location Nucleus {ECO:0000250|UniProtKB:P30279}. Cytoplasm {ECO:0000250|UniProtKB:P30279}. Nucleus membrane {ECO:0000250|UniProtKB:P30279}. Note=Cyclin D-CDK4 complexes accumulate at the nuclear membrane and are then translocated into the nucleus through interaction with KIP/CIP family members {ECO:0000250|UniProtKB:P30279}

Background

Inaba et al.(1992) used murine cDNA clones for 3 cyclin D genes that are normally expressed during the G1 phase of the cell cycle to clone the cognate human genes. D-type cyclins(cyclins D1, D2, and D3) are regarded as essential links between cell environment and the core cell cycle machinery. cyclin D2(CCND2) gene is assigned to 12p13.

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