

Anti-Cyclin D2 Antibody (Monoclonal, DCS-3)
Catalog # ABO10426**Specification**

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

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

Gene ID 64033

Other Names

G1/S-specific cyclin-D2, Vin-1 proto-oncogene, Ccnd2, Vin-1

Calculated MW

32826 MW KDa

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. .

Protein Name

G1/S-specific cyclin-D2

Contents

Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.

Immunogen

Recombinant human cyclin D2 protein.

Purification

Ascites

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the cyclin family. Cyclin D subfamily.

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

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

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Cyclin D2 Antibody (Monoclonal, DCS-3) - Images**Anti-Cyclin D2 Antibody (Monoclonal, DCS-3) - 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.