

Cyclin D1 (G1-Cyclin & Mantle Cell Marker)Mouse Monoclonal Antibody [Clone CCND1/809]**Purified Mouse Monoclonal Antibody**
Catalog # AH10366**Specification**

Cyclin D1 (G1-Cyclin & Mantle Cell Marker)Mouse Monoclonal Antibody [Clone CCND1/809] - Product Information

Application	IF, FC
Primary Accession	P24385
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a, kappa
Calculated MW	36kDa KDa

Cyclin D1 (G1-Cyclin & Mantle Cell Marker)Mouse Monoclonal Antibody [Clone CCND1/809] - Additional Information**Gene ID** 595**Other Names**

B cell CLL/lymphoma 1, B cell leukemia 1, B-cell lymphoma 1 protein, BCL-1 oncogene, CCND1 protein, CCND1/FSTL3 fusion gene, CCND1/IGHG1 fusion gene CCND1/IGLC1 fusion gene, CCND1/PTH fusion gene, cD1, Cyl 1, G1/S-specific cyclin-D1, Parathyroid adenomatosis 1, PRAD1 oncogene

Target/Specificity

Recombinant full-length human CCND1 protein

Format

0.5ml at 100ug/ml with BSA and azide

Storage

Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions

Cyclin D1 (G1-Cyclin & Mantle Cell Marker)Mouse Monoclonal Antibody [Clone CCND1/809] is for research use only and not for use in diagnostic or therapeutic procedures.

Cyclin D1 (G1-Cyclin & Mantle Cell Marker)Mouse Monoclonal Antibody [Clone CCND1/809] - Protein Information**Name** CCND1 {ECO:0000303|PubMed:8204893, ECO:0000312|HGNC:HGNC:1582}**Function**

Regulatory component of the cyclin D1-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 (PubMed:1833066, PubMed:1827756, PubMed:8114739, PubMed:8302605, PubMed:19412162, PubMed:33854235). 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 (PubMed:1833066, PubMed:1827756, PubMed:8114739, PubMed:8302605, PubMed:19412162). Hypophosphorylates RB1 in early G(1) phase (PubMed:1833066, PubMed:1827756, PubMed:8114739, PubMed:8302605, PubMed:19412162). Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals (PubMed:1833066, PubMed:1827756, PubMed:8302605, PubMed:19412162). Also a substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity (PubMed:15241418). Component of the ternary complex, cyclin D1/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex (PubMed:9106657). Exhibits transcriptional corepressor activity with INSM1 on the NEUROD1 and INS promoters in a cell cycle-independent manner (PubMed:16569215, PubMed:18417529).

Cellular Location

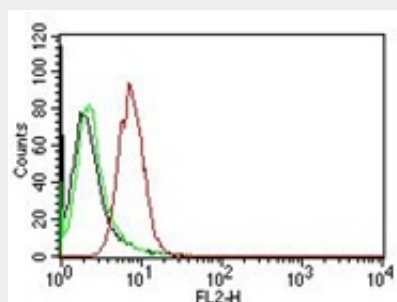
Nucleus. Cytoplasm Nucleus membrane. Note=Cyclin D-CDK4 complexes accumulate at the nuclear membrane and are then translocated to the nucleus through interaction with KIP/CIP family members

Cyclin D1 (G1-Cyclin & Mantle Cell Marker)Mouse Monoclonal Antibody [Clone CCND1/809] - 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](#)

Cyclin D1 (G1-Cyclin & Mantle Cell Marker)Mouse Monoclonal Antibody [Clone CCND1/809] - Images



Flow Cytometric analysis of human Cyclin D1 on HeLa Cells. Black: Cells alone; Green: Isotype Control; Red: PE-labeled Cyclin D1 MAb (CCND1/809).

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- References

Baldin V; Lukas J; Marcote MJ; Pagano M; Draetta G. Cyclin D1 is a nuclear protein required for cell cycle progression in G1. *Genes and Development*, 1993, 7(5):812-21.