

## Mouse anti-Human Cyclin D1 Monoclonal Antibody | anti-CCND1 antibody

Cyclin D1 (G1-Cyclin &amp; Mantle Cell Marker) Mouse Monoclonal Antibody

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                                                             |
|-----------|-------|------------|------------------------------------------------------------------------------------------|
| AAA62903  | Mouse | Human      | Immunohistochemistry, Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay |

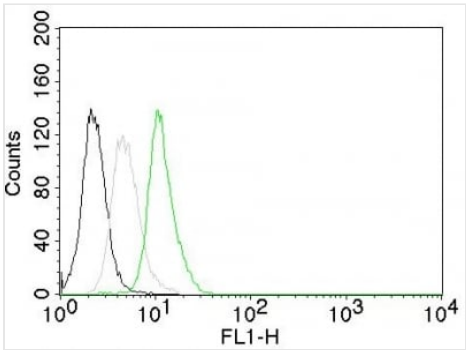
### PRODUCT SYNONYMS

Cyclin D1; Monoclonal Antibody; Cyclin D1 (G1-Cyclin & Mantle Cell Marker) Mouse Monoclonal Antibody; 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; anti-CCND1 antibody

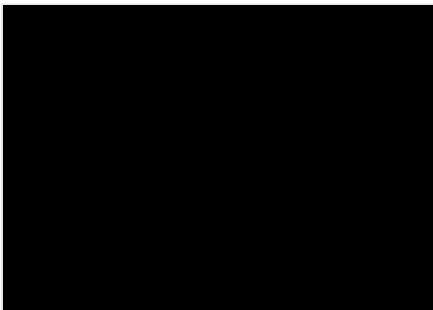
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Reactivity                                      | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Isotype                                         | IgG2a, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Clone Number                                    | CCND1/809                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Specificity                                     | Recognizes a protein of 36kDa, identified as cyclin D1. Cyclin D1, one of the key cell cycle regulators, is a putative proto-oncogene overexpressed in a wide variety of human neoplasms. This antibody neutralizes the activity of cyclin D1 in vivo. About 60% of mantle cell lymphomas (MCL) contain a t(11; 14)(q13; q32) translocation resulting in over-expression of cyclin D1. This antibody is useful in identifying mantle cell lymphomas (cyclin D1 positive) from CLL/SLL and follicular lymphomas (cyclin D1 negative). Occasionally, hairy cell leukemia and plasma cell myeloma weakly express Cyclin D1. |
| Form/Format                                     | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Sequence Length                                 | 295                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Applicable Applications for anti-CCND1 antibody | IHC (Immunohistochemistry), WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Cellular Localization                           | Nuclear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Immunogen                                       | Recombinant human CCND1 protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Hu-Chromosome Location                          | 11q13.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Positive Control                                | T47D, ZR75, BT474, SKBR3, MCF-7, MDA-MB-453, HT29, Ramos, Jurkat or A431 cells. Mantle cell lymphoma, breast or bladder carcinomas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Preparation and Storage                         | Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.                                                                                                                                                                                                                                                                                                                                                                                                                                                |

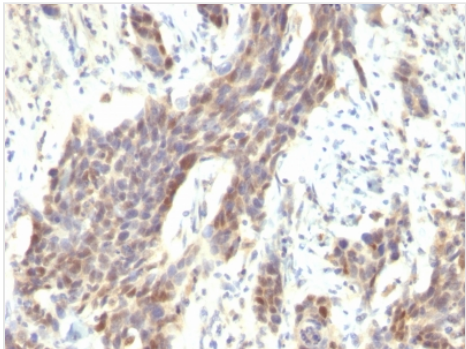
IMAGES



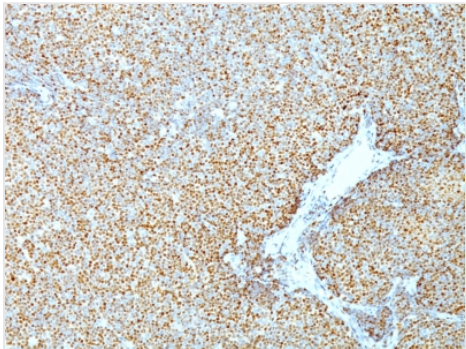
**FCM/FACS (Flow Cytometry)**  
Flow Cytometry of human Cyclin D1 on Jurkat Cells. Black: Cells alone; Grey: Isotype Control; Green: AF488-labeled Cyclin D1 Monoclonal Antibody (CCND1/809).



**FCM/FACS (Flow Cytometry)**  
Flow Cytometry of human Cyclin D1 on HeLa Cells. Black: Cells alone; Green: Isotype Control; Red: PE-labeled Cyclin D1 Monoclonal Antibody (CCND1/809).



**IHC (Immunohistochemistry)**  
Formalin-fixed, paraffin-embedded human Bladder Carcinoma stained with Cyclin D1 Monoclonal Antibody (CCND1/809).



**IHC (Immunohistochemistry)**  
Formalin-fixed, paraffin-embedded human Mantle Cell Lymphoma stained with Cyclin D1 Monoclonal Antibody (CCND1/809).

ADDITIONAL INFORMATION

|            |                                                                                                                                                                        |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                               |
|----------------------------------|-------------------------------|
| NCBI GI #                        | 16950655                      |
| NCBI GeneID                      | 595                           |
| NCBI Accession #                 | NP_444284.1                   |
| NCBI GenBank Nucleotide #        | NM_053056.2                   |
| UniProt Accession #              | P24385; Q6LEF0                |
| Molecular Weight                 | 36kDa                         |
| NCBI Official Full Name          | G1/S-specific cyclin-D1       |
| NCBI Official Synonym Full Names | cyclin D1                     |
| NCBI Official Symbol             | CCND1                         |
| NCBI Official Synonym Symbols    | BCL1; PRAD1; U21B31; D11S287E |
| NCBI Protein Information         | G1/S-specific cyclin-D1       |
| UniProt Protein Name             | G1/S-specific cyclin-D1       |
| UniProt Gene Name                | CCND1                         |

|                            |                    |
|----------------------------|--------------------|
| UniProt Synonym Gene Names | BCL1; PRAD1; BCL-1 |
| UniProt Entry Name         | CCND1_HUMAN        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cyclin-d1-antibody-clone-ccnd1-809-immunohistochemistry-western-blot-immunofluorescence-flow-cytometry-elisa/62903>