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36-1637: Monoclonal Antibody to Cyclin D1 (G1-Cyclin & Mantle Cell Marker)(Clone : CCND1/809)

Clonality: Monoclonal CCND1/809 Clone Name: Application: FACS.IHC Reactivity: Human Gene: CCND1 Gene ID: 595 **Uniprot ID:** P24385 Format: Purified

Alternative Name : CCND1,BCL1,PRAD1 Isotype : Mouse IgG2a, kappa

Immunogen Information: Recombinant human CCND1 protein

Description

Recognizes a protein of 36kDa, identified as cyclin D1. Cyclin D1, one of the key cell cycle regulators, is a putative protooncogene 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.

Product Info

Amount: 100 μg

Purification: Affinity Chromatography

Content: 100 μg in 500 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly

toxic.

Storage condition:

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Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid

repeated freeze and thaw cycles.

Application Note

Flow Cytometry (1-2ug/million cells); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

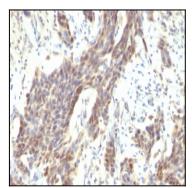


Formalin-fixed, paraffin-embedded human Mantle Cell Lymphoma stained with Cyclin D1 Monoclonal Antibody (CCND1/809).

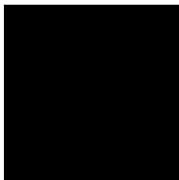


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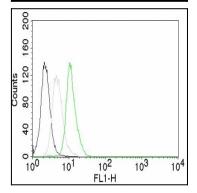
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Formalin-fixed, paraffin-embedded human Bladder Carcinoma stained with Cyclin D1 Monoclonal Antibody (CCND1/809).



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



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