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30-2838: Anti-Cyclin D1 Biotin MAb (Clone: DCS-6)

Clonality :	Monoclonal
Clone Name :	DCS-6
Application :	IP,ICC,IHC,FACS,WB
Reactivity :	Rat,Mouse,Human,Non-Human Primates
Conjugate :	Biotin
Gene :	CCND1
Gene ID :	595
Uniprot ID :	P24385
Alternative Name :	CYC-D1, CCND1, BCL1, PRAD1, U21B31
Isotype :	Mouse IgG2a
Immunogen Information :	Recombinant human cyclin D1 (amino acids 1-295)

Description

Specificity: The mouse monoclonal antibody DCS-6 recognizes cyclin D1, an ubiquitously expressed 33 kDa protein that migrates as a 36 kDa band under reducing SDS-PAGE conditions.
Cyclin D1 (PRAD1, Bcl-1) is a cytoplasmic and nuclear protein, which is synthesized during G1 phase and assembles with either cyclin-dependent kinase 4 (CDK4) or CDK6 in response to growth factor stimulation. D-type cyclin-CDK complexes act to inactivate the growth-suppressive function of the Rb protein through its phosphorylation, and titrate CDK inhibitors such as p21Cip1 and p27Kip1. Whereas during G1 phase cyclin D1 accumulates in the nucleus, it translocates into the cytoplasm during S phase. Without growth factor-mediated stimulation cyclin D1 is unstable, and undergoes ubiquitin-mediated degradation, which is triggered by its phosphorylation. Cyclin D1 destabilization participates in G1/S phase arrest.

Product Info

Amount :	0.1 mg
Purification :	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.
Content :	1 mg/ml Storage Buffer: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow cytometry: Recommended dilution: 2-10 µg/ml. Intracellular staining.
Immunohistochemistry: Recommended dilution: 5-10 µg/ml.

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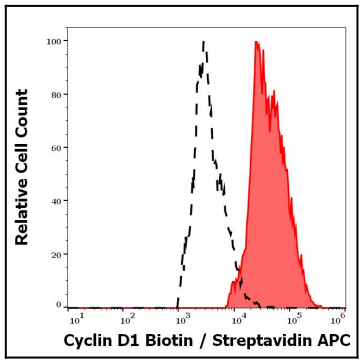

Figure 1: Separation of MCF-7 cells stained using anti-Cyclin D1 (DCS-6) Biotin antibody (concentration in sample 5,0 Î¼g/ml, Streptavidin APC, red-filled) from MCF-7 cells unstained by primary antibody (Streptavidin APC, black-dashed) in flow cytometry analysis (intracellular staining).