

30-2741: Anti-Cyclin D1 PE

Clonality :	Monoclonal
Clone Name :	DCS-6
Application :	FACS
Reactivity :	Rat, Mouse, Non-human primates, Human
Conjugate :	PE
Gene :	CCND1
Gene ID :	595
Uniprot ID :	P24385
Alternative Name :	cyclin D1 CYC-D1, CCND1, Bcl-1, PRAD1, U21B31
Immunogen Information :	recombinant human cyclin D1 (amino acids 1-295)

Description

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.

Specificity : The mouse monoclonal antibody DCS-6 recognizes cyclin D1, an ubiquitously expressed 33 kDa intracellular protein that migrates as a 36 kDa band under reducing SDS-PAGE conditions.

Product Info

Amount :	0.1 mg
Purification :	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Storage Buffer: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: Recommended dilution: 1 µg/ml. Intracellular staining.