

Product name:	Cyclin D1
Cat number:	MAB-80044
Conjugate:	Unconjugated
Size:	100 ug
Clone:	CD1.1
Concentration:	1mg/ml
Host:	Ms
Isotype:	IgG1
Immunogen:	Purified cyclin D1 protein
Reactivity:	Hu
Applications:	Flow Cytometry Application note: Membrane permeabilization is required. Immunoprecipitation: Recommended dilution: 1 µg/ml Western Blotting Recommended dilution: 1 µg/ml Immunohistochemistry (paraffin sections): Recommended dilution: 2 µg/ml Positive tissue: colon Pretreatment: Heat treatment, sodium citrate buffer pH 6.0. Immunohistochemistry (frozen sections) Immunocytochemistry: Recommended dilution: 1 µg/ml ELISA
Purification:	Purified from ascites by protein-A affinity chromatography.
Form:	Liquid
Buffer:	Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide.
Storage:	Store at 2-8oC. Do not use after expiration date stamped on vial label. For long- term storage aliquot and store at -20oC. Avoid freeze/thaw cycles.
Background:	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. The antibody CD1.1 recognizes cyclin D1, an ubiquitously expressed 33 kDa protein that migrates as a 36 kDa band under reducing SDS-PAGE condition