Datasheet for ABIN967539

anti-Cyclin D1 antibody (full length)

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Overview

Quantity:	100 µg
Target:	Cyclin D1 (CCND1)
Binding Specificity:	full length
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cyclin D1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Formalin-fixed Sections) (IHC (f)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Intracellular Staining (ICS)

Product Details

Brand:	BD Pharmingen™
Immunogen:	Human Full-length Cyclin D1 Recombinant Protein
Clone:	DCS-6
Isotype:	IgG2a
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

Product Details

	3. Please refer to us for technical protocols.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	Cyclin D1 (CCND1)
Alternative Name:	Cyclin D1 (CCND1 Products)
Background:	Cyclins and cyclin-dependent kinases (Cdks) have been shown to be subunits of cell cycle dependent protein kinases that regulate key events during the progression of the cell cycle and are evolutionarily highly conserved. Specific substrates for Cdk/cyclin kinases include nuclear lamins, histones, oncogenes (c-src, c-abl, SV40 large-T), tumor suppressor genes (the retinoblastoma protein [Rb] and p53), nucleolin, RNA polymerase II and others. D-type cyclins are involved in regulating the passage of mammalian cells through G1. In SDS-PAGE, D-type cyclins migrate at the following molecular weights: cyclin D1 (36 kDa), cyclin D2 (35 kDa), and cyclin D3 [31 and 34 kDa (doublet)]. Rodent cyclin D1 homologues (Cyl1) have been reported to typically migrate as a 36 kDa doublet. The mouse anti-human cyclin D1 antibody (clone DCS-6) recognizes human cyclin D1 (36 kDa) and has been reported to crossreact with rat and mouse cyclin D1 homologues (Cyl1). It does not crossreact with human cyclins D2 and D3.
Molecular Weight:	36 kDa
Pathways:	PI3K-Akt Signaling, Cell Division Cycle, Mitotic G1-G1/S Phases, ER-Nucleus Signaling

Application Details

Comment:	Related Products: ABIN968585, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C.

Publications

Product cited in:

Darzynkiewicz, Gong, Juan, Ardelt, Traganos: "Cytometry of cyclin proteins." in: **Cytometry**, Vol. 25, Issue 1, pp. 1-13, (1997) (PubMed).

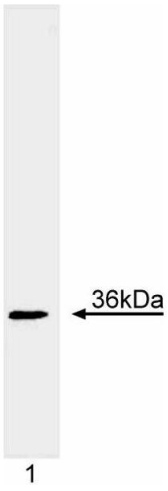
de Boer, Schuuring, Dreef, Peters, Bartek, Kluin, van Krieken: "Cyclin D1 protein analysis in the diagnosis of mantle cell lymphoma." in: **Blood**, Vol. 86, Issue 7, pp. 2715-23, (1995) (PubMed).

Lukas, Pagano, Staskova, Draetta, Bartek: "Cyclin D1 protein oscillates and is essential for cell cycle progression in human tumour cell lines." in: **Oncogene**, Vol. 9, Issue 3, pp. 707-18, (1994) (PubMed).

Meyerson, Harlow: "Identification of G1 kinase activity for cdk6, a novel cyclin D partner." in: **Molecular and cellular biology**, Vol. 14, Issue 3, pp. 2077-86, (1994) (PubMed).

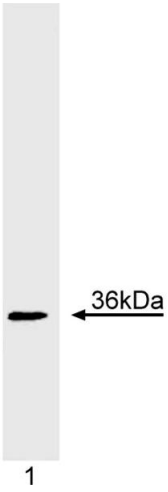
Images

Image 1.



Western Blotting

Image 2. Western blot analysis of Cyclin D1. MCF7 cell lysates (Human breast adenocarcinoma, ATCC HTB-22) was probed with the mouse anti-human Cyclin D1 antibody (clone DCS-6) at 1-2 µg/mL (Lane 1). Cyclin D1 is identified as a band of ~36 kDa.



Western Blotting

Image 3.

