Datasheet for ABIN967879

anti-Cyclin D3 antibody (AA 127-292)

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Overview

Quantity:	50 µg
Target:	Cyclin D3 (CCND3)
Binding Specificity:	AA 127-292
Reactivity:	Human, Mouse, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cyclin D3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Immunogen:	Human Cyclin D3 aa. 127-292
Clone:	1-Cyclin D3
Isotype:	IgG2b
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Dog (Canine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. 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. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	Cyclin D3 (CCND3)
Alternative Name:	Cyclin D3 (CCND3 Products)
Background:	Several classes of cyclins (A-E) have been described. These proteins act as regulatory subunits for cyclin-dependent kinases (cdks). The synthesis and degradation of cyclins is tightly controlled in a cell cycle specific manner. There are at least 3 different D-type cyclins whose relative levels vary among cell types. Cyclin D3 is known to associate with Cdk5 and weakly with Cdk2. Cdk4 is preferentially bound by Cyclin D1. However, in T cells which do not express Cyclin D1, Cdk4 associates with Cyclins D2 and D3. While bound to cdks, the D-type cyclins also associate with the polymerase-delta subunit, PCNA. Cyclin D3 has also been shown to bind pRb in vitro. This suggests that pRb may be an in vivo substrate of D-type cyclins. This antibody is routinely tested by western blot analysis.
Molecular Weight:	33 kDa
Pathways:	Cell Division Cycle, Mitotic G1-G1/S Phases, Glycosaminoglycan Metabolic Process

Application Details

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

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

Product cited in:

Haller, Wu, Derow, Schmitt, Jeang, Grassmann: "Physical interaction of human T-cell leukemia virus type 1 Tax with cyclin-dependent kinase 4 stimulates the phosphorylation of retinoblastoma protein." in: **Molecular and cellular biology**, Vol. 22, Issue 10, pp. 3327-38, (2002) (PubMed).

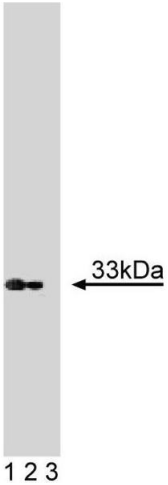
Saitoh, Pizzi, Wang: "Perturbation of SUMOlation enzyme Ubc9 by distinct domain within nucleoporin RanBP2/Nup358." in: **The Journal of biological chemistry**, Vol. 277, Issue 7, pp. 4755-63, (2002) (PubMed).

Bagui, Jackson, Agrawal, Pledger: "Analysis of cyclin D3-cdk4 complexes in fibroblasts expressing and lacking p27(kip1) and p21(cip1)." in: **Molecular and cellular biology**, Vol. 20, Issue 23, pp. 8748-57, (2000) (PubMed).

Motokura, Keyomarsi, Kronenberg, Arnold: "Cloning and characterization of human cyclin D3, a cDNA closely related in sequence to the PRAD1/cyclin D1 proto-oncogene." in: **The Journal of biological chemistry**, Vol. 267, Issue 28, pp. 20412-5, (1992) (PubMed).

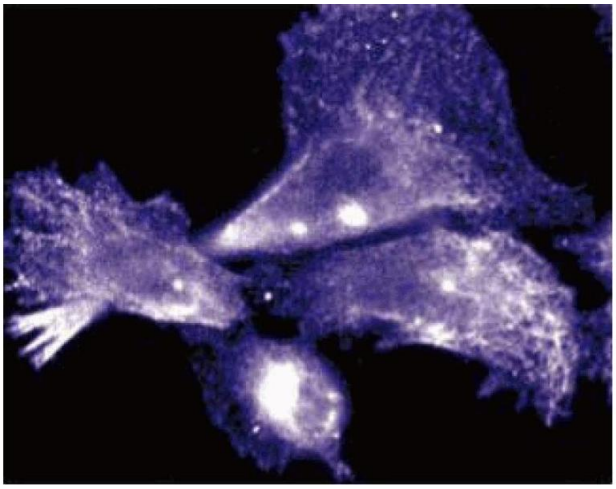
Xiong, Menninger, Beach, Ward: "Molecular cloning and chromosomal mapping of CCND genes encoding human D-type cyclins." in: **Genomics**, Vol. 13, Issue 3, pp. 575-84, (1992) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of Cyclin D3 on RSV-3T3 lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the Cyclin D3 antibody.



Immunofluorescence

Image 2. Immunofluorescent staining of Human Endothelial cells.