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anti-Cyclin D1 antibody (C-Term)

Images

Publications



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Quantity:	100 μL
Target:	Cyclin D1 (CCND1)
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cyclin D1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human Cyclin D1, corresponding to a region within C-terminal amino acids.
Isotype:	IgG
Specificity:	Cyclin D1 Antibody detects endogenous levels of total Cyclin D1.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Dog,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

Cyclin D1 (CCND1) Target:

Target Details

Alternative Name:	CCND1 (CCND1 Products)
Background:	Description: Regulatory component of the cyclin D1-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G1/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F
	target genes which are responsible for the progression through the G1 phase.
	Hypophosphorylates RB1 in early G1 phase. Cyclin D-CDK4 complexes are major integrators of
	various mitogenenic and antimitogenic signals. Also substrate for SMAD3, phosphorylating
	SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component
	of the ternary complex, cyclin D1/CDK4/CDKN1B, required for nuclear translocation and activity
	of the cyclin D-CDK4 complex. Exhibits transcriptional corepressor activity with INSM1 on the
	NEUROD1 and INS promoters in a cell cycle-independent manner.
	Gene: CCND1
Molecular Weight:	33kDa
Gene ID:	595
UniProt:	P24385
Pathways:	PI3K-Akt Signaling, Cell Division Cycle, Mitotic G1-G1/S Phases, ER-Nucleus Signaling
Application Details	
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %
	glycerol.
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

Handling

Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Publications

Product cited in:

Yuan, Wu, Li, Niu, Tan, Qiu: "Regulation of Signaling Pathways Involved in the Anti-proliferative and Apoptosis-inducing Effects of M22 against Non-small Cell Lung Adenocarcinoma A549 Cells." in: **Scientific reports**, Vol. 8, Issue 1, pp. 992, (2018) (PubMed).

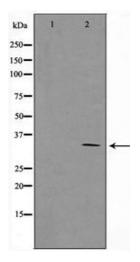
Li, Liu, Zhang, Cui, Ge, Wang, Chen: "Upregulation of E-cadherin expression mediated by a novel dsRNA suppresses the growth and metastasis of bladder cancer cells by inhibiting β -catenin/TCF target genes." in: **International journal of oncology**, Vol. 52, Issue 6, pp. 1815-1826 , (2018) (PubMed).

Huang, Song, Tao, Shao, Zeng, Xu, Qi, Sun: "Ovostatin 2 knockdown significantly inhibits the growth, migration, and tumorigenicity of cutaneous malignant melanoma cells." in: **PLoS ONE**, Vol. 13, Issue 4, pp. e0195610, (2018) (PubMed).

Shen, Yuan, Zhao, Li, Xu, Lou, Zheng, Bu, Guo, Xi: "Novel long non-coding RNA GACAT3 promotes gastric cancer cell proliferation through the IL-6/STAT3 signaling pathway." in: **Tumour biology**, Vol. 37, Issue 11, pp. 14895-14902, (2017) (PubMed).

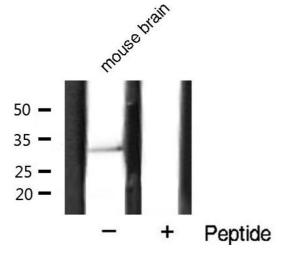
Li, Wang, Yu, Wu, Hu, Wang, Ye: "miR-3619-5p inhibits prostate cancer cell growth by activating CDKN1A expression." in: **Oncology reports**, Vol. 37, Issue 1, pp. 241-248, (2017) (PubMed).

There are more publications referencing this product on: Product page



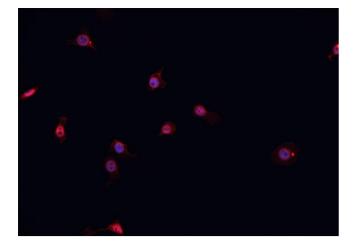
Western Blotting

Image 1. Western blot analysis of Cyclin D1 expression in MCF7 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



Western Blotting

Image 2. estern blot analysis of Cyclin D1 expression in mouse brain tissue lysates, The lane on the right is treated with the antigen-specific peptide.



Immunofluorescence (fixed cells)

Image 3. ABIN6267056 staining A-431 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody(Cat.# S0006), diluted at 1/600, was used as secondary antibody.