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# Datasheet for ABIN6256448 anti-Cyclin D1 antibody (pSer90)

3 Images



## Overview

Quantity:	100 µL	
Target:	Cyclin D1 (CCND1)	
Binding Specificity:	pSer90	
Reactivity:	Human, Rat, Mouse	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This Cyclin D1 antibody is un-conjugated	
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)	

## Product Details

Immunogen:	A synthesized peptide derived from human Cyclin D1 around the phosphorylation site of Ser90.	
Isotype:	lgG	
Specificity:	Phospho-Cyclin D1 (Ser90) Antibody detects endogenous levels of Cyclin D1 only when phosphorylated at Serine 90.	
Predicted Reactivity:	Pig,Bovine,Rabbit,Dog	
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.	

## Target Details

Target:

Cyclin D1 (CCND1)

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Target Details		
Alternative Name:	CCND1 (CCND1 Products)	
Background:	<ul> <li>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.</li> <li>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.</li> </ul>	
Molecular Weight:	31kDa	
Gene ID:	595	
UniProt:	P24385	
Pathways: Application Details	PI3K-Akt Signaling, Cell Division Cycle, Mitotic G1-G1/S Phases, ER-Nucleus Signaling	
Application Notes:	WB 1:500-1:2000, 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	

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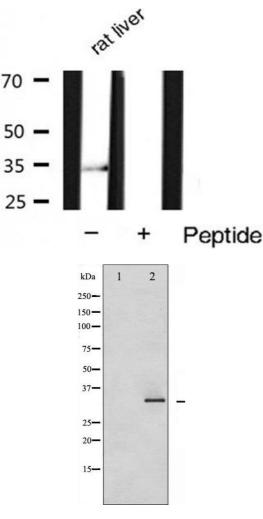
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Storage Comment:

Expiry Date:

12 months

### Images

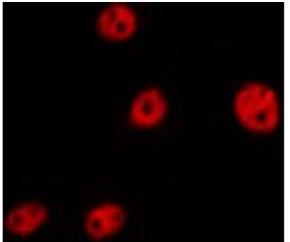


#### Western Blotting

**Image 1.** Western blot analysis of extracts of Rat liver lysates, using Phospho-Cyclin D1 (Ser90) Antibody .The lane on the right is treated with the antigen-specific peptide.

## Western Blotting

**Image 2.** Western blot analysis of Cyclin D1 phosphorylation expression in K562 whole cell lysates,The lane on the left is treated with the antigen-specific peptide.



#### Immunofluorescence (fixed cells)

**Image 3.** ABIN6267445 staining MCF7 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) Ab, diluted at 1/600, was used as the secondary antibody.

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