Datasheet for ABIN1881155

anti-Cyclin B1 antibody (pSer35)

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Overview

Quantity:	400 µL
Target:	Cyclin B1 (CCNB1)
Binding Specificity:	pSer35
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cyclin B1 antibody is un-conjugated
Application:	Western Blotting (WB), Dot Blot (DB)

Product Details

Immunogen:	This CCNB1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S35 of human CCNB1.
Clone:	RB42141
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	Cyclin B1 (CCNB1)
Alternative Name:	CCNB1 (CCNB1 Products)
Background:	The protein encoded by this gene is a regulatory protein involved in mitosis. The gene product

Target Details

	complexes with p34(cdc2) to form the maturation-promoting factor (MPF). Two alternative transcripts have been found, a constitutively expressed transcript and a cell cycle-regulated transcript, that is expressed predominantly during G2/M phase. The different transcripts result from the use of alternate transcription initiation sites. [provided by RefSeq].
Molecular Weight:	48337
NCBI Accession:	NP_114172
UniProt:	P14635
Pathways:	Cell Division Cycle, AMPK Signaling, Mitotic G1-G1/S Phases, M Phase

Application Details

Application Notes:	WB: 1:1100. DB: 1:500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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:	4 °C,-20 °C
Expiry Date:	6 months

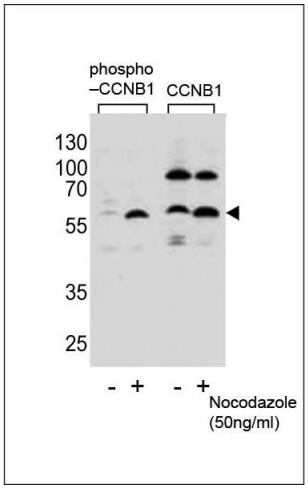
Publications

Product cited in:	Kreis, Sanhaji, Krämer, Sommer, Rödel, Strebhardt, Yuan: "Restoration of the tumor suppressor p53 by downregulating cyclin B1 in human papillomavirus 16/18-infected cancer cells." in: **Oncogene**, Vol. 29, Issue 41, pp. 5591-603, (2010) (PubMed). van Zon, Ogink, ter Riet, Medema, te Riele, Wolthuis: "The APC/C recruits cyclin B1-Cdk1-Cks in prometaphase before D box recognition to control mitotic exit." in: **The Journal of cell biology**, Vol. 190, Issue 4, pp. 587-602, (2010) (PubMed).

Publications

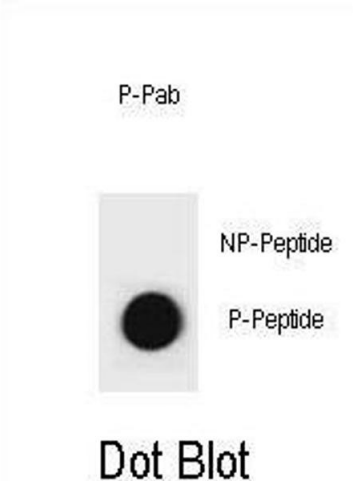
Harley, Allan, Sanderson, Clarke: "Phosphorylation of Mcl-1 by CDK1-cyclin B1 initiates its Cdc20-dependent destruction during mitotic arrest." in: **The EMBO journal**, Vol. 29, Issue 14, pp. 2407-20, (2010) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of lysate from Hela cells(from left to right),untreated or treated with Nocodazole at 50 ng/mL,using Phospho-CCNB1-S35 Antibody (ABIN1881155 and ABIN2839973) or CCNB1-S9 Antibody.Lysate at 15 µg per lane.(ABIN1881155 and ABIN2839973) was diluted at 1:1100 dilution at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody.



Dot Blot

Image 2. Dot blot analysis of CCNB1 Antibody (Phospho S35) Phospho-specific Pab (ABIN1881155 and ABIN2839973) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6 µg per ml.