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# Datasheet for ABIN6941329 anti-Cyclin A1 antibody

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#### Overview

Quantity:	100 µg
Target:	Cyclin A1 (CCNA1)
Reactivity:	Xenopus laevis
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cyclin A1 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	Recombinant full-length Xenopus laevis Cyclin A1 protein
Clone:	XLA1-3
lsotype:	IgG1 kappa
Purification:	Purified by Protein A/G

## Target Details

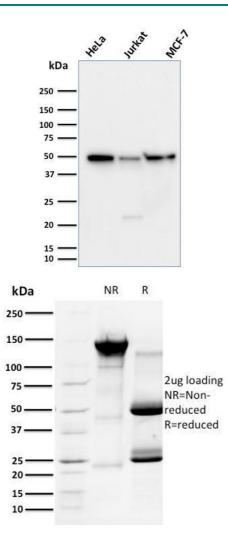
Target:	Cyclin A1 (CCNA1)
Alternative Name:	ccna1 (CCNA1 Products)
Background:	The critical role that the family of regulatory proteins known as cyclins play in eukaryotic cell cycle regulation is well established. The best-characterized cyclin complex is the mitotic cyclin B/Cdc2 p34 kinase, the active component of maturing promoting factor. Cyclin A accumulates
	prior to cyclin B in the cell cycle, appears to be involved in control of S phase and has been

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## Target Details

	shown to associate with cyclin-dependent kinase-2 (Cdk2). In addition, cyclin A has been
	implicated in cell transformation and is found in complexes with E1A, transcription factors
	DRTF1 and E2F, and retinoblastoma protein p110. A second form of cyclin A, named cyclin A1
	because of its high sequence homology to Xenopus cyclin A1, is most highly expressed in germ
	cells. It has been proposed that cyclin A1 can associate with Cdk2, p39 and Cdc2 p34. The
	antibody detects Xenopus cyclin A in blots. Cyclin A1 is the embryonic cyclin which is present in
	Xenopus eggs. This MAb only detects Xenopus Cyclin A1.
Molecular Weight:	65kDa
UniProt:	P18606
Pathways:	Apoptosis, Cell Division Cycle, AMPK Signaling, Mitotic G1-G1/S Phases, DNA Replication, M
	Phase, Synthesis of DNA
Application Details	
Application Notes:	Positive Control: Very high levels in testis. Also found in myeloid leukemia cell lines. Xenopus
	laevis tissue lysate.
	Known Application: Western Blot (1-2 $\mu$ g/mL)Optimal dilution for a specific application should
	be determined.
Restrictions:	For Research Use only
Handling	
Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % 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,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody
	is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

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#### Western Blotting

**Image 1.** Western Blot Analysis of (1) HeLa (2) Jurkat and (3) MCF-7 cell lysates using Cyclin A1 Mouse Monoclonal Antibody (XLA1-3).

#### SDS-PAGE

**Image 2.** SDS-PAGE Analysis Purified Cyclin A1 Mouse Monoclonal Antibody (XLA1-3). Confirmation of Purity and Integrity of Antibody.

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