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# Datasheet for ABIN675294 anti-Retinoblastoma 1 antibody (pSer780)

1 Validation

1 Publication



#### Overview

Quantity:	100 μL
Target:	Retinoblastoma 1 (RB1)
Binding Specificity:	pSer780
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Retinoblastoma 1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro))

#### Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human Rb around the phosphorylation site of (Ser780)
Isotype:	lgG
Cross-Reactivity:	Human, Rat
Predicted Reactivity:	Mouse,Dog,Cow,Chicken
Purification:	Purified by Protein A.
Target Details	
Target:	Retinoblastoma 1 (RB1)

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Target Details	
Alternative Name:	Rb/p105-Rb (RB1 Products)
Background:	Synonyms: RbSer780, OSRC, P105 RB, P105RB, PP105, PP110, pRb, RB 1, RB1, RB1 protein, Retinoblastoma 1 including osteosarcoma, Retinoblastoma 1, Retinoblastoma associated protein, Including osteosarcoma, Osteosarcoma, p105-Rb, Rb, RB_HUMAN, Retinoblastoma suspectibility protein, Retinoblastoma-associated protein, Retinoblastoma related osteosarcoma, Retinoblastoma susceptibility gene. Background: Nuclear Marker. The protein encoded by this gene is a negative regulator of the cell cycle and was the first tumor suppressor gene found. The encoded protein also stabilizes constitutive heterochromatin to maintain the overall chromatin structure. The active,
Gene ID:	hypophosphorylated form of the protein binds transcription factor E2F1. Defects in this gene are a cause of childhood cancer retinoblastoma (RB), bladder cancer, and osteogenic sarcoma. 5925
Pathways:	Cell Division Cycle, Intracellular Steroid Hormone Receptor Signaling Pathway, Mitotic G1-G1/S Phases, DNA Replication, Maintenance of Protein Location, Synthesis of DNA, Autophagy

#### Application Details

Restrictions:	For Research Use only
	IF(ICC) 1:50-200
	IF(IHC-F) 1:50-200
	IF(IHC-P) 1:50-200
	IHC-F 1:100-500
	IHC-P 1:200-400
	FCM 1:20-100
	ELISA 1:500-1000
Application Notes:	WB 1:300-5000

#### Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

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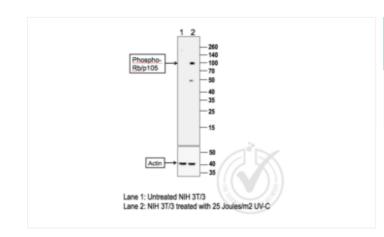
	handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months
Publications	
Product cited in:	Béguelin, Rivas, Calvo Fernández, Teater, Purwada, Redmond, Shen, Challman, Elemento, Singh,
	Melnick: "EZH2 enables germinal centre formation through epigenetic silencing of CDKN1A and
	an Rb-E2F1 feedback loop." in: <b>Nature communications</b> , Vol. 8, Issue 1, pp. 877, (2018) (
	PubMed).

	Successfully validated (Western Blotting (WB))
	by Alamo Laboratories Inc
	Report Number: 029795
THE WILLY WE	Date: Aug 21 2014
REPRODUCIBILITY INITIATIVE	
NO.: 829795 0ATE: 08/21/14	
Target:	Retinoblastoma 1 (RB1) (pSer780)
Lot Number:	120508
Method validated:	Western Blotting (WB)
Positive Control:	NIH/3T3 cells irradiated with 25 Joules/m2 UV-C
Negative Control:	Non-irradiated NIH/3T3 cells
Notes:	A strong band was observed in the positive control sample at the correct molecular weight. An
	additional band was also observed in the positive sample at a lower molecular weight which
	may represent non-specific binding. No bands were observed in the negative control sample.
Primary Antibody:	- Antigen: Retinoblastoma 1 (RB1) (pSer780) - Catalog number: ABIN675294 - Supplier: Bioss -
	Supplier catalog number: bs-1347R - Lot number: 120508 - Antibody Dilution: 1:100
Secondary Antibody:	- Antigen: Goat Anti-Rabbit IgG (H + L)-HRP Conjugate - Supplier: Bio-Rad - Catalog number:
	#170-6515 - Lot number: L170-6515 - Antibody Dilution: 1:10,000
Controls:	Positive control: NIH/3T3 cells irradiated with 25 Joules/m2 UV-C*
	<ul> <li>Negative control: Non-irradiated NIH/3T3 Cells</li> <li>XI/V C Treatment: Sub-confluent cells (x 50% confluent) in T150 flock were truppinized and</li> </ul>
	<ul> <li>*UV-C Treatment: Sub-confluent cells (~50% confluent) in T150 flask were trypsinized and transferred to 12 cell-culture dishes (100mmx10mm) and returned to incubator for 24 hours.</li> </ul>
	Thereafter, the growth medium was siphoned and cells were irradiated with UV-C @ 25
	Joules/m2 using Hoefer UVC 500 Ultraviolet crosslinker. After irradiation, the complete
	growth medium was added to dishes and cells were incubated for another 16 hours.
	Thereafter, cells were collected by adding 0.5ml of Modified RIPA (with protease and
	phosphatase inhibitor cocktails) to each dish and protein extract prepared.
Protocol:	• 1. The cell extracts were heated at 95°C for 5 minutes in 1X SDS Sample Buffer containing
	1% SDS and 1.25% β-mercaptoethanol.
	<ul> <li>2. 20 μL of heated culture-media were loaded and resolved on 8-16% SDS-polyacrylamide gel.</li> </ul>
	<ul> <li>3. The Thermo Scientific - Spectra Multicolor Broad Range (Cat # 26634) were used as molecular mass markers.</li> </ul>
	• 4. Proteins were then transferred onto PVDF membrane by wet transfer and protein transfer
	was confirmed with Ponceau-S staining.

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- No experimental challenges noted.
secondary antibody.
16. Repeated Steps 5-12 with the loading control antibody (for Anti-actin) and its matching
<ul> <li>15. The membrane was washed in TBST 2 times for 10 minutes each.</li> </ul>
3 times, 10 minutes each.
• 14. Incubated in Acidic Glycine Stripping Buffer at room temperature with gentle agitation for
• 13. The membrane was rinsed three times TBST.
• 12. Signals were detected with ECL-2 Substrate. The blot was scanned for 50 minutes.
• 11. The membrane was rinsed in TBS twice for 30 seconds each.
• 10. The membrane was rinsed thrice TBST thrice for 5 minutes each.
agitation.
containing 5% (W/V) BSA and incubated for 1 hour at room temperature (~26°C) with gentle
• 9. The membrane was incubated in the HRP-conjugated secondary antibody solution in TBST
• 8. The membrane was rinsed in TBST thrice for 5 minutes each.
TBST containing 5% (W/V) BSA and incubated for 20 hours at 4°C.
• 7. The membrane was immersed with the protein side up in the primary antibody solution in
6. The membrane was rinsed with TBST once.
pH 7.4 plus 0.1% TW20 (TBST)] containing 5% (W/V) BSA at room temperature for 1 hour.
• 5. The PVDF membrane was incubated with 25 mL of blocking buffer [Tris Buffered Saline,

### Image for Validation report #029795



Validation image no. 1 for anti-Retinoblastoma 1 (RB1) (pSer780) antibody (ABIN675294)

Figure 1: Western Blot for RB1 pSer780. Grey arrowhead indicates the expected molecular weight of  $\sim$ 105 kDa.