

ABfinity™ Rb [pS780] Recombinant Rabbit Oligoclonal Antibody

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Rev. 1.00

Catalog Number: 710296

Store at 2° to 8°C (short-term), or -20°C (long-term)

Clonality: Oligoclonal
Concentration: 0.5 mg/mL
Quantity: 100 µg
Volume: 200 µL

Host/Class: Rabbit IgG
Reactivity: Human Rb [pS780]
Predicted Reactivity: Human

Product Description

The Retinoblastoma (Rb) tumor suppressor protein belongs to the Pocket protein family. It is a nuclear protein which is widely expressed in retinal cells. Rb prevents the replication of damaged DNA by inducing cell cycle arrest. It is inactivated by phosphorylation and activated by dephosphorylation. Aurora B directly phosphorylates Rb at serine residue 780 both *in vitro* and *in vivo*. Active (dephosphorylated) Rb binds and inactivates the cellular transcription factor E2F1, to inhibit cell cycle progression. In humans, the protein is encoded by the RB1 gene located on the q arm of chromosome 13.

Product Specifications

Immunogen: Phosphopeptide corresponding to amino acids 775–786 of human Retinoblastoma [pS780]

Alternate Names: p105-Rb, Retinoblastoma

Apparent MW: ~110 kDa

Gene ID: 5925

Protein Accession No.: P06400

Sequence Identity: Human

Sequence Homology: Mouse, Rat, Drosophilla, Monkey, Rabbit

Clone/PAD: 13HCLC

Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Immunocytochemistry	Human	U2OS cells	1–3 µg/mL
Western blotting	Human	Colo 205 cells	2–3 µg/mL
Indirect ELISA	Human	Phosphopeptide	1.5 × 10 ⁻⁴ to 3 µg/mL

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

Storage and Handling

Store the antibody at 2° to 8°C for up to 1 month, -20°C for long storage. Avoid repeated freezing and thawing.

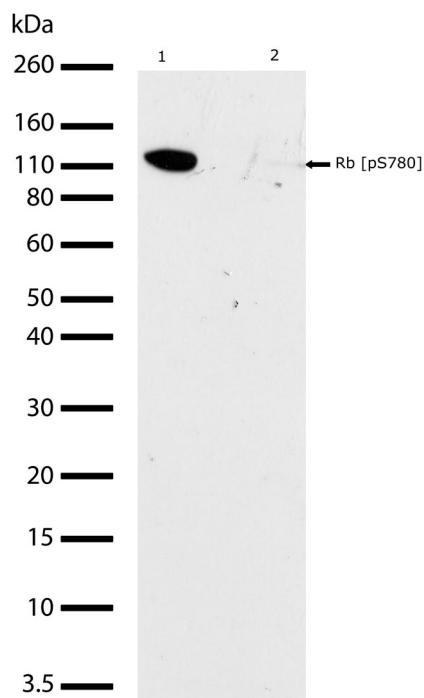


Figure 1 Western blot analysis of ABfinity™ Rb [pS780] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710296).

Western blot analysis was performed on Colo 205 whole cell extracts (lanes 1, 2). Endogenous levels of Rb [pS780] was detected at ~110 kDa using ABfinity™ Rb [pS780] Recombinant Rabbit Oligoclonal Antibody at a concentration of 2 µg/mL. To confirm specificity, competition was performed with the phosphopeptide to inhibit antibody binding (lane 2). The blot was developed using chemiluminescence (ECL) method.

For research use only. Not for human or animal therapeutic or diagnostic use.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@lifetech.com

Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

Caution: Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.

Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit www.lifetechnologies.com/support.

Related Products

Product Name	Quantity	Catalog no.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Nitrocellulose, 0.2 µm	20/pack	LC2000

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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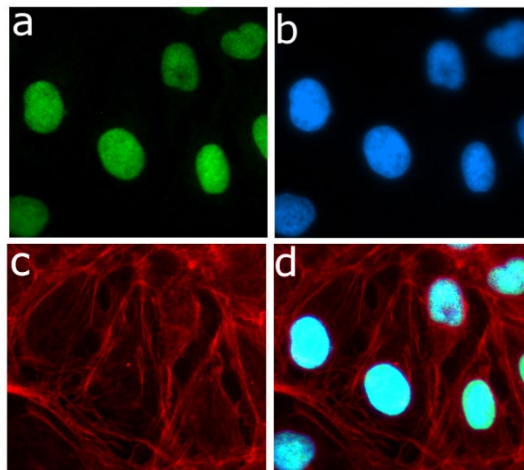


Figure 2 Immunocytochemistry analysis of ABfinity™ Rb [pS780] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710296).

Immunocytochemistry analysis of U2OS cells stained with ABfinity™ Rb [pS780] Recombinant Rabbit Oligoclonal Antibody, using a: Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). b: DAPI stained U2OS nuclei (blue). c: Actin stained with Alexa Fluor® 594 phalloidin (red). d: Composite image of cells showing nuclear localization of phosphorylated Rb.

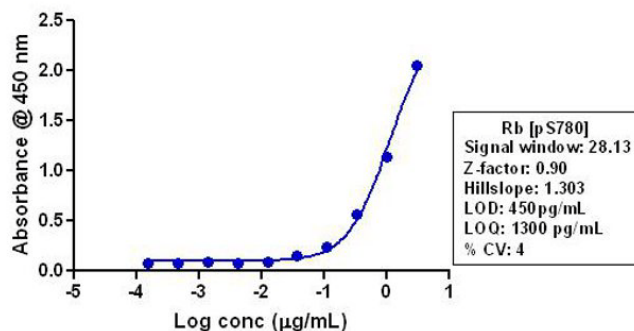


Figure 3 Indirect ELISA of ABfinity™ Rb [pS780] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710296).

Indirect ELISA was performed using various dilutions of ABfinity™ Rb [pS780] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710296) to detect Rb [pS780] phosphopeptide coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

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