

ABfinity™ p53 [AcK382] Recombinant Rabbit Oligoclonal Antibody

Publication Number: MAN0006994

Rev. 1.00

Catalog Number: 710294

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

Clonality:	Oligoclonal	Host/Class:	Rabbit IgG
Concentration:	0.5 mg/mL	Reactivity:	Human p53 [AcK382]
Quantity:	100 µg	Predicted Reactivity:	Human
Volume:	200 µL		

Product Description

The p53 tumor suppressor protein plays a major role in cellular response to DNA damage and other genomic aberrations. Activation of p53 can lead to either cell cycle arrest and DNA repair, or apoptosis. p53 acetylation at lysine 382 is confirmed to be required for recruitment of p300 to the p21 promoter, and is mediated by p300 and CBP acetyltransferases. Acetylation appears to play a positive role in the accumulation of p53 protein in stress responses.

Product Specifications

Immunogen:	Acetylated peptide corresponding to amino acids 379–385 of human Tumor Protein 53 [AcK382]
Alternate Names:	TP53, TRP53
Apparent MW:	~ 53 kDa
Gene ID:	7157
Protein Accession No.:	P04637
Sequence Identity:	Human
Sequence Homology:	Mouse, Rat, Monkey, Rabbit
Clone/PAD:	10HCLC
Lot:	See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	HeLa cells	2–3 µg/mL
Immunocytochemistry	Human	HeLa cells	1–2 µg/mL
Indirect ELISA	Human	Acetylated peptide	1.5 × 10 ⁻⁴ to 3 µg/mL

Storage and Handling

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

Stability

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

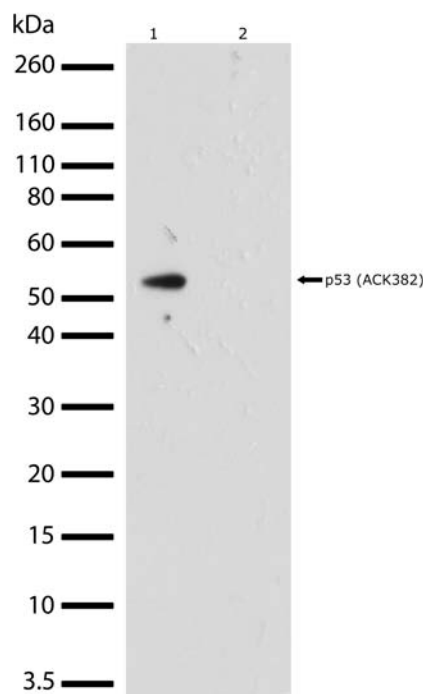


Figure 1 Western blot analysis of ABfinity™ p53 [AcK 382] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710294).

Western blot analysis was performed on whole cell extracts from HeLa cells treated with doxorubicin (0.2 µM) and sodium butyrate (5 mM) for 24 hours (**lane 1**) or lysates from untreated HeLa cells (**lane 2**). Endogenous levels of acetylated p53 [AcK 382] was detected at ~53 kDa using ABfinity™ p53 [AcK 382] Recombinant Rabbit Oligoclonal Antibody at a concentration of 2 µg/mL. The blot was developed using enhanced chemiluminescence (ECL) method.

Storage Buffer

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

Caution: Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at www.lifetechnologies.com/support.

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

Product Documentation

To obtain a Certificate of Analysis or SDS, 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.		

Limited Product Warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at www.lifetechnologies.com/termsandconditions. If you have any questions, please contact Life Technologies at www.lifetechnologies.com/support.

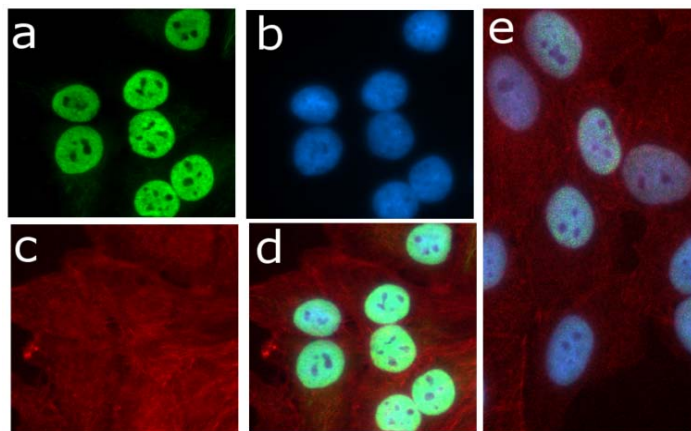


Figure 2 Immunocytochemistry analysis of ABfinity™ p53 [AcK 382] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710294).

Immunocytochemistry of HeLa cells stained with ABfinity™ p53 [AcK 382] Recombinant Rabbit Oligoclonal Antibody, using

a: Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). **b:** DAPI stained HeLa nuclei (blue) and **c:** Actin stained with Alexa Fluor® 594 phalloidin (red). **d:** Composite image of cells showing subcellular cytoplasmic localization of acetylated p53. **e:** Composite image showing specificity of antibody to acetylated p53 by lack of staining in untreated cells.

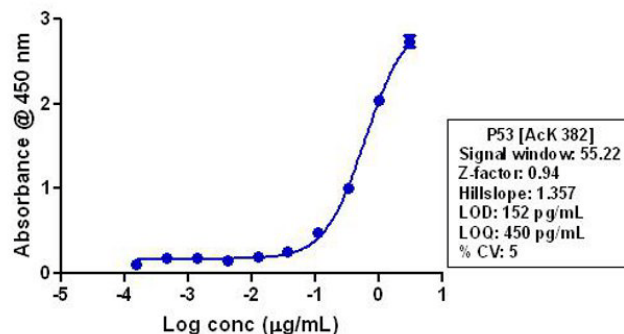


Figure 3 Indirect ELISA of ABfinity™ p53 [AcK 382] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710294).

Indirect ELISA was performed using various dilutions of ABfinity™ p53 [AcK 382] Recombinant Rabbit Oligoclonal Antibody to detect acetylated p53 [AcK 382] peptide coated onto the plate. A non-linear regression analysis was performed (4 PL), and LOD and LOQ for the antibody was determined.

Limited Use Label License No. 327: Recombinant Antibody Technology

Notice to Purchaser: The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research and manufacturing conducted by the buyer (whether the buyer is an academic or for-profit entity). The buyer cannot sell or otherwise transfer (a) this product, (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes. The buyer may transfer information or materials made through the use of this product to a scientific collaborator, provided that such transfer is not for any Commercial Purpose, and that such collaborator agrees in writing (a) not to transfer such materials to any third party, and (b) to use such transferred materials and/or information solely for research and not for Commercial Purposes. Commercial Purposes means any activity by a party for consideration and may include, but is not limited to: (1) use of the product or its components for contract manufacturing services; (2) use of the product or its components to provide a service, information, or data; (3) use of the product itself or its components as a therapeutic, diagnostic or prophylactic; or (4) resale of the product or its components, whether or not such product or its components are resold for use in research or manufacturing. If the purchaser is not willing to accept the limitations of this limited use statement, Life Technologies is willing to accept return of the product for a full refund. For information on obtaining additional rights, please contact outlicensing@lifetech.com

LIFE TECHNOLOGIES AND/OR ITS AFFILIATE(S) DISCLAIM ALL WARRANTIES WITH RESPECT TO THIS DOCUMENT, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THOSE OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. TO THE EXTENT ALLOWED BY LAW, IN NO EVENT SHALL LIFE TECHNOLOGIES AND/OR ITS AFFILIATE(S) BE LIABLE, WHETHER IN CONTRACT, TORT, WARRANTY, OR UNDER ANY STATUTE OR ON ANY OTHER BASIS FOR SPECIAL, INCIDENTAL, INDIRECT, PUNITIVE, MULTIPLE OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THIS DOCUMENT, INCLUDING BUT NOT LIMITED TO THE USE THEREOF.

©2012 Life Technologies Corporation. All rights reserved. The trademarks mentioned herein are the property of Life Technologies Corporation or their respective owners.

For support visit www.lifetechnologies.com/support or email techsupport@lifetech.com

www.lifetechnologies.com

15 July 2012

life
technologies™