

ABfinity™ p53 [AcK382] Recombinant Rabbit Oligoclonal Antibody

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Rev. 1.00

Catalog Number: 710294

Store at 2°C 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 p53 [AcK382]
Predicted Reactivity: Human

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.

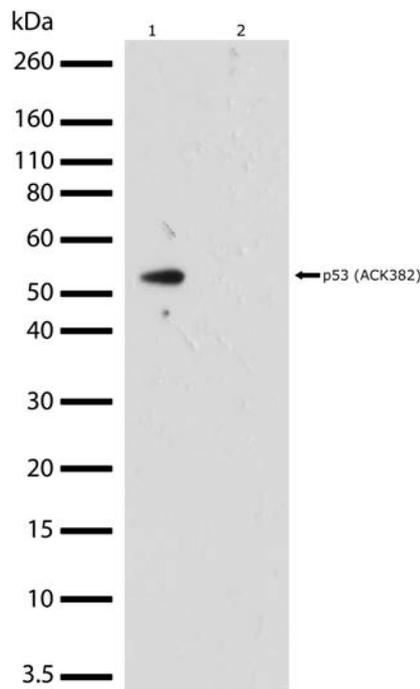


Figure 1 Western blot analysis of ABfinity™ p53 [AcK 382] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710294).

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

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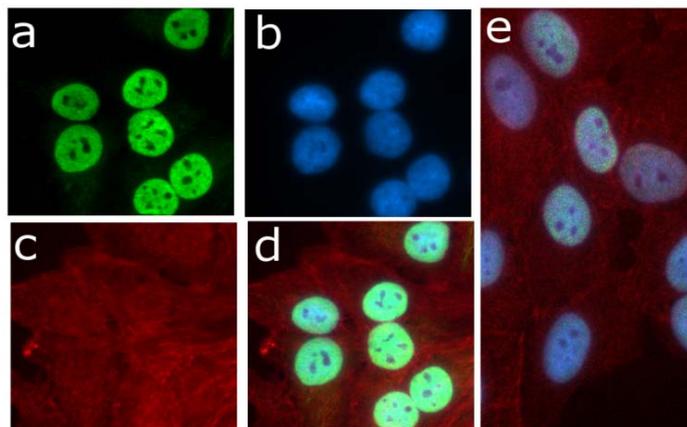


Figure 2 Immunocytochemistry analysis of ABfinity™ p53 [AcK 382] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710294).

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.

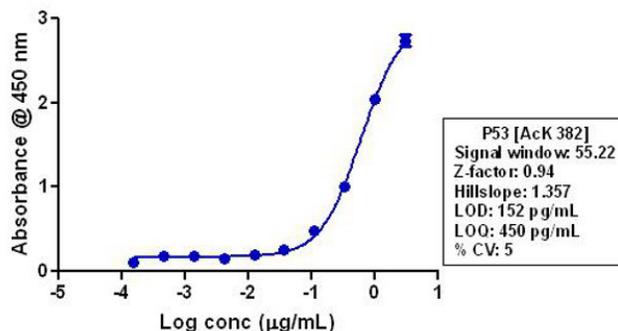


Figure 3 Indirect ELISA of ABfinity™ p53 [AcK 382] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710294).

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.

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