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by life technologies™

ABfinity™ p53 [AcK382] Recombinant Rabbit Monoclonal Antibody

Publication Number: MAN0007169 **Rev.** 1.00

Catalog Number: 701270 **Store at 2°C to 8°C (short-term), or –20°C (long-term)**

Clonality:	Monoclonal	**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 Lys^{382} is 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, and inhibition of deacetylation stabilizes p53.

Product Specifications

Immunogen:	Peptide corresponding to amino acids 377–386 of human p53 [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:	10 H13L14
Lot:	See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	HeLa cells	1–3 µg/mL
Immunocyto chemistry	Human	HeLa cells	1 µg/mL
Indirect ELISA	Human	Peptide	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°C to 8°C for up to 1 month, –20°C for long storage. Avoid repeated freezing and thawing.

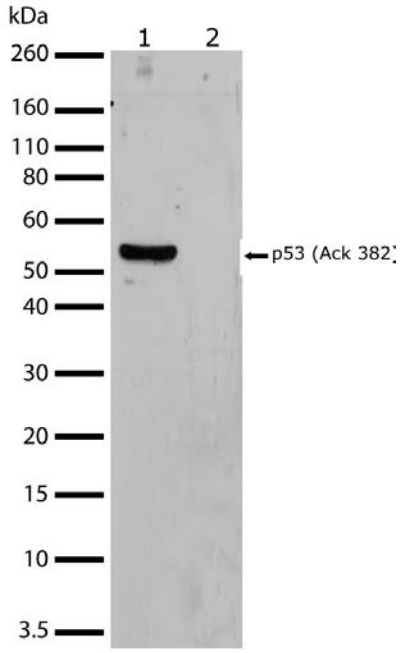

Figure 1 Western blot analysis of ABfinity™ p53 [AcK382] Recombinant Rabbit Monoclonal Antibody (Cat. no. 701270).

Western blot analysis was performed on whole cell extracts from HeLa cells treated with doxorubicin (0.2 µM) and sodium butyrate (5 mM) lysate. Endogenous levels of acetylated p53 [AcK382] was detected at ~53 kDa using ABfinity™ p53 [AcK382] Recombinant Rabbit Monoclonal Antibody at a concentration of 2 µg/mL **(lane 1)**. To confirm specificity, competition was performed by preincubation with phosopeptide to inhibit antibody binding **(lane 2)**. 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 use in diagnostic procedures.

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

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**.

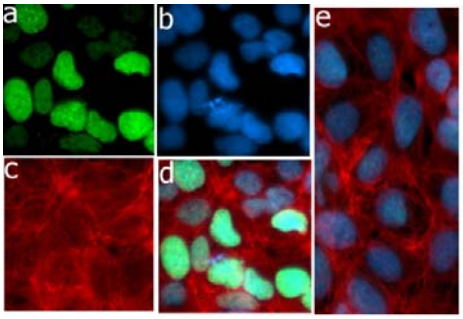

Figure 2 Immunocytochemistry analysis of ABfinity™ p53 [AcK382] Recombinant Rabbit Monoclonal Antibody (Cat. no. 701270).

Immunocytochemistry analysis of HeLa cells treated with 0.2 µM doxorubicin and 5 mM sodium butyrate for 24 hours, stained with ABfinity™ p53 (AcK 382) Recombinant Rabbit Monoclonal Antibody, using **a**: Alexa Fluor® 488 goat anti-rabbit as secondary antibody (green). **b**: DAPI stained HeLa nuclei (blue). **c**: Actin stained with Alexa Fluor® 594 phalloidin (red). **d**: Composite image of cells showing nuclear localization of acylated p53. **e**: Composite image of cells showing inhibition of antibody binding after competition with acylated peptide.

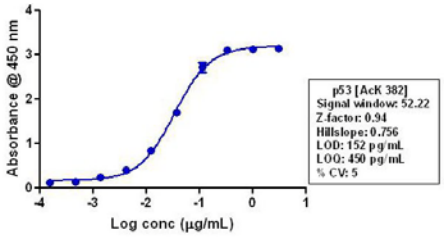

Figure 3 Indirect ELISA of ABfinity™ p53 [AcK382] Recombinant Rabbit Monoclonal Antibody Cat. no. 701270).

IIndirect ELISA was performed using various dilutions of ABfinity™ p53 [AcK382] Recombinant Rabbit Monoclonal Antibody to detect p53 [AcK382] peptide coated onto the plate. A non-linear regression analysis was performed (4 PL), and LOD and LOQ for the antibody was determined.

Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer	REF	Catalog number	LOT	Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

Limited Use Label License No. 327: Recombinant Antibody Technology

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