

ABfinity[™] p21 Recombinant Rabbit Monoclonal Antibody

Publication Part No. MAN0006625

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

Rev. 1.00

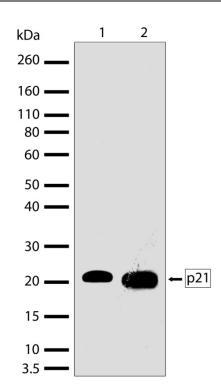
Clonality:	Monoclonal	Host/Class:	Rabbit IgG
Concentration:	0.5 mg/mL	Reactivity:	Human p21 protein
Quantity:	100 µg	Predicted Reactivity:	Human
Volume:	200 µL		

Product Description

The p21 protein is a tumor suppressor that inhibits Cyclindependent kinases (CDK), and is transcriptionally activated by p53. It is important in the response of cells to genotoxic stress, and is a major transcriptional target of the p53 protein. In the nucleus, p21 binds and inhibits the activity of Cdk1 and Cdk2. This blocks the G1 to S phase, or G2 to mitosis transitions after DNA damage to enable the repair of damaged DNA. In the cytoplasm, p21 protein has an anti-apoptotic effect. It is able to bind to and inhibit caspase 3, ASK1, and JNK.

Product Specifications

Immunogen:	Peptide corresponding to amino acids 217–227 of Human p21 protein	
Alternate Names:	CAP20, CDKN1, CIP1	
Apparent MW:	~21 kDa	
Gene ID:	1026	
Protein Accession No.:	P38936	
Sequence Identity:	Human	
Sequence Homology:	Mouse, Rat, Rabbit, Horse	
Clone/PAD:	2H2L13	
Lot:	See product label	



Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	HeLa and MCF7 cells	2–5 μg/mL
Immunocyto chemistry	Human	U2OS cells	1–3 µg/mL
Indirect ELISA	Human	Peptide	1.5 x 10 ⁻⁴ to 3 μg/mL

Storage and Handling

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

Stability

Expires one year from date of receipt when stored as instructed.

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. **Figure 1** Western blot analysis of ABfinityTM p21 Recombinant Rabbit Monoclonal Antibody (Cat. no. 701151). Western blot analysis was performed on whole cell extracts of HeLa (lane 1) and MCF7 (lane 2). Endogenous p21 at ~21 kDa was detected using ABfinityTM p21 Recombinant Rabbit Monoclonal Antibody at a concentration of 2 µg/mL. 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

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		
REF	Catalogue Number	LOT	Batch code		
RUO	Research Use Only	IVD	In vitro diagnostic medical device		
X	Use by	کر	Temperature limitation		
***	Manufacturer	EC REP	European Community authorised representative		
[-]	Without, does not contain	[+]	With, contains		
from Light	Protect from light	Â	Consult accompanying documents		
[]i	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.

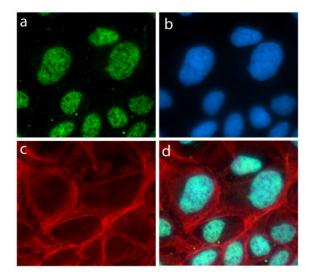


Figure 2 Immunocytochemistry analysis of ABfinity[™] p21 Recombinant Rabbit Monoclonal Antibody (Cat. no. 701151). Immunocytochemistry analysis of U2OS cells stained with ABfinity[™] p21 Recombinant Rabbit Monoclonal Antibody, using **a**: Alexa Fluor[®] 488 goat anti-rabbit as a secondary antibody (green). **b**: DAPI stained U2OS nuclei (blue). **c**: Actin stained with Alexa Fluor[®] 594 phalloidin (red). **d**: Composite image of cells showing nuclear localization of p21.

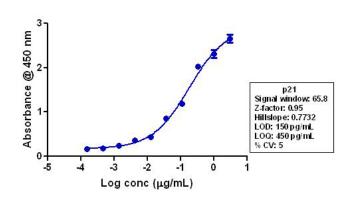


Figure 3 Indirect ELISA of p21 (CDKN1), Rabbit mAb (2H2L13), ABfinity[™] Recombinant Monoclonal Antibody (Cat. no. 701151). Indirect ELISA was performed using various dilutions of p21 (CDKN1), Rabbit mAb (2H2L13), ABfinity[™] Recombinant Monoclonal Antibody (Cat. no. 701151) to detect p21 peptide coated 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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15 March 2012