

ABfinity™ Ki-67 Recombinant Rabbit Monoclonal Antibody

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Rev. 1.00

Catalog Number: 701198

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

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

Host/Class: Rabbit IgG
Reactivity: Human Ki-67
Predicted Reactivity: Human

Product Description

Ki-67 is a nuclear protein that is expressed during various stages in the cell cycle, particularly during late G1, S, G2, and M phases. The protein has a forkhead associated domain (FHA) through which it associates with the euchromatin at the perichromosomal layer with centromeric heterochromatin, and with the nucleolus. Ki-67 is shown to have a cell cycle dependent topographical distribution, with perinucleolar expression at G1, expression in the nuclear matrix at G2, and expression on the chromosomes during M phase. Ki-67 is commonly used as a proliferation marker because it is not detected in G0 cells, but increases steadily from G1 through mitosis.

Product Specifications

Immunogen: Peptide corresponding to amino acids 1213–1232 of human Ki-67
Alternate Names: MKI67, KIA
Apparent MW: ~359 kDa
Gene ID: 4288
Protein Accession No.: P46013
Sequence Identity: Human
Sequence Homology: Mouse, Rat, Monkey
Clone/PAD: 12H15 L5
Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Immunocytochemistry	Human	HeLa cells	2–5 µg/mL
Indirect ELISA	Human	Peptide	1.5 × 10 ⁻⁴ to 3 µg/mL

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.

Stability

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

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.

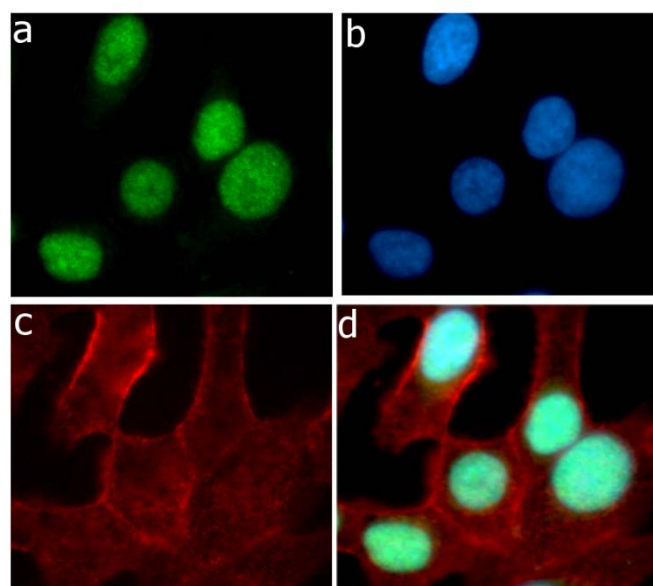


Figure 1 Immunocytochemistry analysis of ABfinity™ Ki-67 Recombinant Rabbit Monoclonal Antibody (Cat. no. 701198). Immunocytochemistry analysis of HeLa cells serum starved for 16 hours followed by serum release for 4 hours, and stained with ABfinity™ Ki-67 Recombinant Rabbit Monoclonal Antibody using **a:** Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). **b:** DAPI stained HeLa nuclei (blue). **c:** Actin stained Alexa Fluor® 594 Phalloidin (red). **d:** Composite image of cells showing nuclear localization of Ki-67.

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
	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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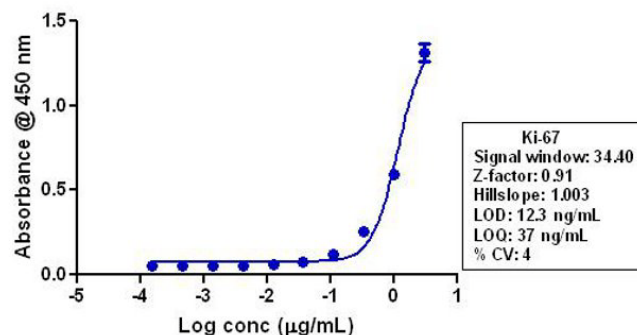


Figure 2 Indirect ELISA of ABfinity™ Ki-67 Recombinant Rabbit Monoclonal Antibody (Cat. no. 701198).

Indirect ELISA was performed using various dilutions of ABfinity™ Ki-67 Recombinant Rabbit Monoclonal Antibody (Cat. no. 701198) to detect Ki-67 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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