

## ABfinity™ I K B-Alpha [pS32] Recombinant Rabbit Monoclonal Antibody

Publication Number MAN0006929

Rev. 1.00

Catalog Number: 701271

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 I K B-Alpha [pS32]  
**Predicted Reactivity:** Human

### Product Description

I-kappa-B alpha (I K B-alpha) is an inhibitor of the NFκB complex that traps it in the cytoplasm. Phosphorylation of serine residues at positions 32 and 36 of I K B-alpha by IκB Kinase (IKK) complex leads to its destruction via the ubiquitination pathway, and results in the activation of the NF-kappa-B complex.

### Product Specifications

**Immunogen:** Phosphopeptide corresponding to amino acids 27–36 of human I K B-Alpha [pS32]  
**Alternate Names:** IKBA, MAD-3  
**Apparent MW:** ~42 kDa  
**Gene ID:** 4792  
**Protein Accession No.:** P25963  
**Sequence Identity:** Human  
**Sequence Homology:** Horse, Rabbit, Monkey  
**Clone/PAD:** 6H4L6  
**Lot:** See product label

### Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	HeLa cells	0.5–1 µg/mL
Indirect ELISA	Human	Phosphopeptide	1.5 × 10 <sup>-4</sup> to 3 µg/mL

### Stability

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

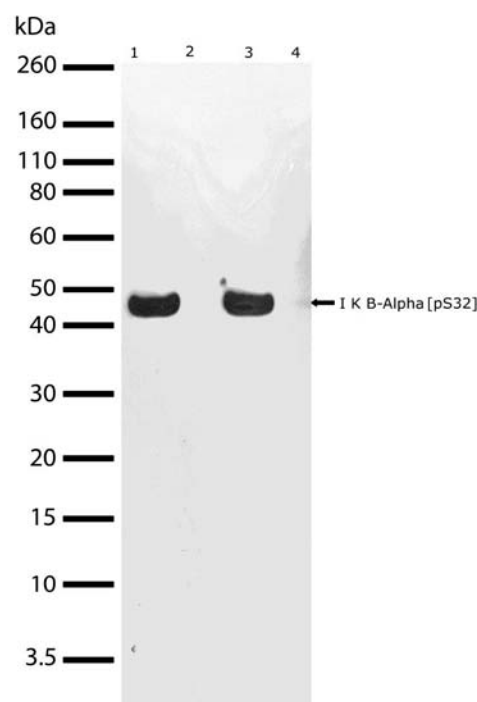
### Storage and Handling

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

### 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 ABfinity™ I K B-Alpha [pS32] Recombinant Rabbit Monoclonal Antibody (Cat. no. 701271).

Western blot analysis was performed on lysates from HeLa cells treated with calyculin A (lanes 1, 2), and HeLa cells treated with TNF alpha (lanes 3, 4). To confirm specificity, competition was performed with the phosphopeptide to inhibit antibody binding (lanes 2 and 4). Endogenous levels of phosphorylated I K B-Alpha was detected at ~42 kDa using ABfinity™ I K B-Alpha [pS32] Recombinant Rabbit Monoclonal Antibody at a concentration of 1 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](mailto:techsupport@lifetech.com)

## Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit [www.lifetechnologies.com/support](http://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

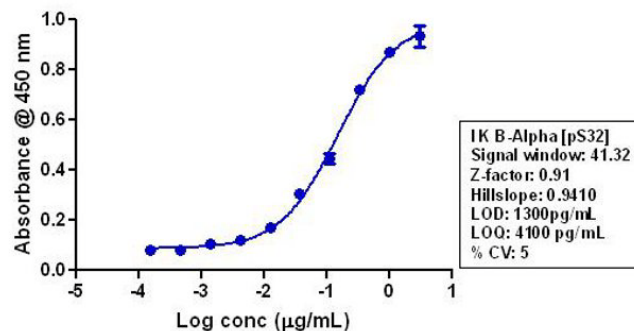
Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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**Figure 2** Indirect ELISA of ABfinity™ I K B-Alpha [pS32] Recombinant Rabbit Monoclonal Antibody (Cat. no. 701271).

Indirect ELISA was performed using various dilutions of ABfinity™ I K B-Alpha [pS32] Recombinant Rabbit Monoclonal Antibody (Cat. no. 701271) to detect I K B-Alpha [pS32] phosphopeptide 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 June 2012

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