

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

Publication Part no. MAN0006836

Rev. 1.00

Catalog Number: 710295

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

<b>Clonality:</b>	Oligoclonal	<b>Host/Class:</b>	Rabbit IgG
<b>Concentration:</b>	0.5 mg/mL	<b>Reactivity:</b>	Human I K B-Alpha [pS32]
<b>Quantity:</b>	100 µg	<b>Predicted Reactivity:</b>	Human
<b>Volume:</b>	200 µL		

### Product Description

I-kappa-B alpha acts as an inhibitor of the NF-kappa-B (NFκB) complex trapping it in the cytoplasm. Phosphorylation of serine residues at positions 32 and 36 on the I-kappa-B alpha protein by IκB Kinase (IKK) complex results in their catabolism via the ubiquitination pathway, and results in the activation of the NFκB complex.

### Product Specifications

<b>Immunogen:</b>	Peptide corresponding to amino acids 27–36 of human I K B-Alpha [pS32]
<b>Alternate Names:</b>	IKBA, MAD-3
<b>Apparent MW:</b>	~42 kDa
<b>Gene ID:</b>	4792
<b>Protein Accession No.:</b>	P25963
<b>Sequence Identity:</b>	Human
<b>Sequence Homology:</b>	Mouse, Rat, rabbit, Monkey
<b>Clone/PAD:</b>	6HCLC
<b>Lot:</b>	See product label

### Product Applications

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

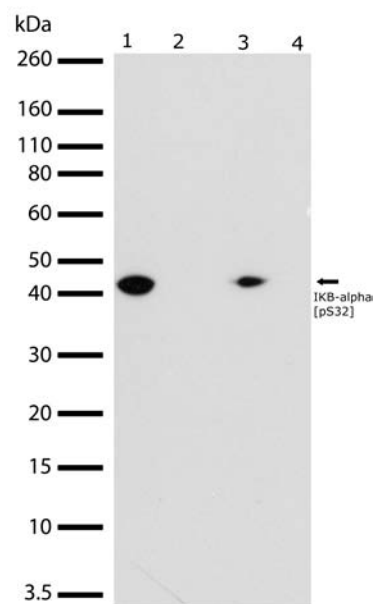
### Stability

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** Western blot analysis of ABfinity™ I K B-Alpha [pS32] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710295).

Western blot analysis was performed on whole cell extracts of HeLa cells treated with Calyculin A (lanes 1 and 2) or TNF-alpha (lanes 3 and 4). A band corresponding to phosphorylated I Kappa B-Alpha at ~42 kDa was detected using ABfinity™ I K B-Alpha [pS32] Recombinant Rabbit Oligoclonal Antibody at a concentration of 2 µg/mL (lane 1 and 3). To confirm specificity, competition was performed with the phosphopeptide to inhibit antibody binding (lane 2 and 4). The blot was developed using chemiluminescence (ECL) method.

**For research use only. Not for human or animal therapeutic or diagnostic use.**

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## 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

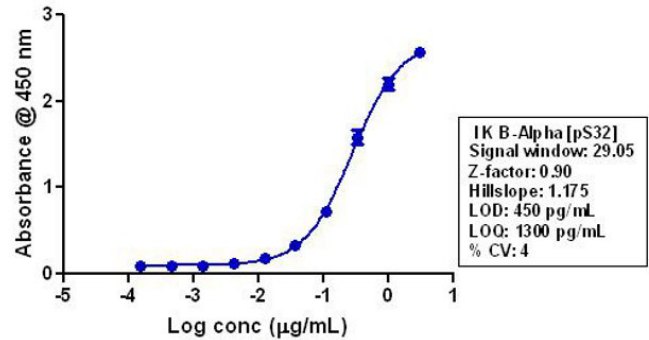
Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents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

## Limited Product Warranty

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**Figure 2** ABfinity™ I K B-Alpha [pS32] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710295).

Indirect ELISA was performed using various dilutions of ABfinity™ I K B-Alpha [pS32] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710288) 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 May 2012

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