

## NFκB p65 ABfinity™ Recombinant Rabbit Monoclonal Antibody - Purified

MAN0004401

Rev. Date: 21 May 2011

Catalog Number: 701079

Store at 2–8°C

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

**Host/Class:** Rabbit IgG  
**Reactivity:** Human NFκBp65, RELA  
**Predicted Reactivity:** Human

### Product Description

NFκB p65 (Nuclear Factor Kappa-light-chain-enhancer of activated B cells, Transcription Factor p65) belongs to the Rel family of transcription factors. NFκB homo and heterodimers are retained in an inert, non-DNA-binding form in the cytosol by inhibitory molecules (e.g., IκBα, IκBβ, and IκBε) in most cells. Activation of NFκB occurs predominantly through the phosphorylation and degradation of IκB proteins. The free NFκB translocates to the nucleus, where it upregulates expression from genes involved in developmental processes, cellular growth, apoptosis, and immune and inflammatory responses. In humans, the gene is located on the q arm of chromosome 11.

### Product Specifications

**Immunogen:** Recombinant protein corresponding to amino acids 375–551 of NFκB p65  
**Alternate Names:** p65, NFκB3, RELA  
**Apparent MW:** ~60 kDa  
**Gene ID:** 5970  
**Protein Accession No.:** Q04206  
**Sequence Identity:** Human  
**Clone/PAD:** 4-2H22L23  
**Lot:** See product label

### Product Applications

Application	Species	Test Material	Concentration
Western Blotting	Human	HeLa cells	1–5 µg/mL
ELISA	Human	Recombinant Protein	1.5x10 <sup>-4</sup> to 3 µg/mL

### Storage and Handling

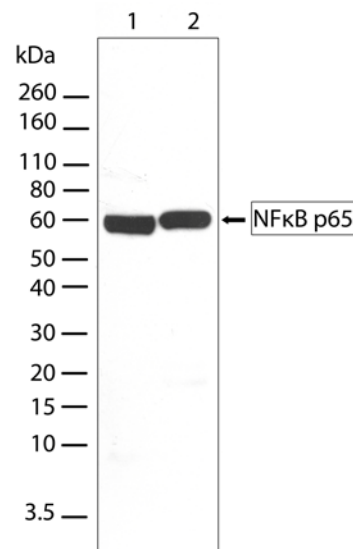
Store the antibody at 2–8°C for up to 1 month. Store at –20°C for long term storage. Avoid repeated freezing and thawing.

### Stability

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

### Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.



**Figure 1** Western Blot analysis of NFκBp65 ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701079). Whole cell extract (50µg per lane) from HeLa cells (Lane 1) and K562 cells (Lane 2) were run on SDS-PAGE, and transferred onto nitrocellulose. The blot was blocked, and incubated with NFκBp65 ABfinity™ Recombinant Rabbit Monoclonal Antibody at 2.5 µg/mL, overnight at 4°C. HRP conjugated Goat Anti-Rabbit secondary antibody was used at a 1:2000 dilution, and developed by chemiluminescence (ECL). A band corresponding to NFκBp65 at ~60 kDa was detected.

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

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## Safety Data Sheets (SDS)

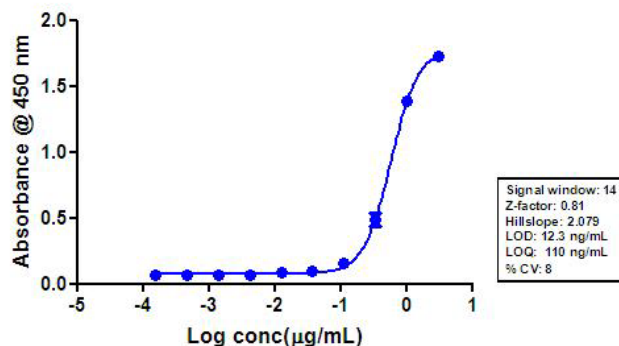
Safety Data Sheets (SDSs) are available at [www.invitrogen.com/sds](http://www.invitrogen.com/sds).

## Certificate of Analysis

The Certificate of Analysis provides detailed quality control and product qualification information for each product. Certificates of Analysis are available on our website. Go to [www.invitrogen.com/support](http://www.invitrogen.com/support) and search for the Certificate of Analysis by product lot number, which is printed on the box.

## 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



**Figure 2** Indirect ELISA of NFκB p65 ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701079). Indirect ELISA was performed using NFκB p65 ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701079) to detect recombinant NFκB p65 protein (300 ng/well). HRP conjugated Goat Anti-Rabbit secondary antibody was used at a 1:5000 dilution, and developed using TMB (Cat. no. SB01) as substrate.

### 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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