



**Qty:** 100 µg/400 µl

Rabbit anti-NFκB

**Catalog No.** 51-3500

**Lot No.** See Product Label

## Rabbit anti-NFκB (p50)

### FORM

This polyclonal antibody is supplied as a 400 µL aliquot at 0.25 mg/mL in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide. The antibody is epitope-affinity-purified from rabbit antiserum.

### POLYCLONAL ANTIBODY DESIGNATION (PAD): ZK50

### IMMUNOGEN

Recombinant protein derived from an internal region of the human NFκB (p50) (nuclear factor of κB).

### SPECIFICITY

This antibody is specific for the p50 subunit of human NFκB. Cross-reactivity with related proteins has not been observed.

### REACTIVITY

Reactivity with NF-κB (p50) was confirmed with human A431 cell lysates. Based on amino acid sequence homology, cross-reactivity with mouse, rat, and chicken is expected.

| Sample    | ELISA | Western Blotting | Gel Mobility Shift Assay |
|-----------|-------|------------------|--------------------------|
| Human     | +     | +                | +                        |
| Immunogen |       |                  |                          |

### USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

**ELISA:** 0.1-1.0 µg/mL  
**Gel Mobility Shift Assay:** 5-10 µg/mL  
**Western Blotting:** 1 µg/mL

The suitability of this antibody for applications other than those listed here has not been evaluated.

### STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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(Rev 10/08) DCC-08-1089

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**BACKGROUND**

The NFκB family of induced-activated transcription factors are dimers comprised of members of the NFκB/Rel protein family. Activation of NFκB is induced by a remarkably large number of stimuli, including viruses, TNF, IL-1, PMA, LPS, UV light, and others. In most cell types, NFκB is present in the cytoplasm as a 50 kDa (p50) subunit and a 65 kDa (p65, rel A) subunit. In unstimulated cells, nuclear localization signals present on p65 are masked by members of the IκB family of inhibitory proteins. Subsequent to cell stimulation, IκB undergoes phosphorylation, ubiquitination and degradation by a proteasome-dependent pathway, allowing nuclear translocation of the active dimeric NFκB transcription factor. In the nucleus, NFκB binds to consensus sequences where, along with other co-factors, it participates in activating or enhancing the expression of specific genes.

**RELATED REVIEWS**

1. Verma IM, et al. *Genes Dev.* 9:2723-2735 (1995).
2. Baueuerle P, Baltimore D. *Cell* 87:13-20 (1996).
3. Perkins ND. *Int J Cell Biol* 29(12):1433-1448 (1997).
4. Ghosh S, et al. *Ann Rev Immunol* 16:225-60 (1998).

**RELATED PRODUCTS**

| <b><i>Product</i></b> | <b><i>Clone or PAD</i></b> | <b><i>Cat. No.</i></b> |
|-----------------------|----------------------------|------------------------|
| Rb anti-NFκB (p65)    | P65C                       | 51-0500                |
| Ms anti-NFκB (p65)    | 2A12A7                     | 33-9900                |
| Rb anti-IKKα          | N-16A                      | 71-2300                |
| Ms anti-Ubiquitin     | Ubi-1                      | 13-1600                |

|               |               |         |
|---------------|---------------|---------|
| Protein A     | Sepharose® 4B | 10-1041 |
| rec-Protein G | Sepharose® 4B | 10-1241 |

| <b><i>Product</i></b>                        | <b><i>Conjugate</i></b> | <b><i>Cat. No.</i></b> |
|--|-------------------------|------------------------|
| Goat anti-Rabbit IgG (H+L)<br>(ZyMAX™ Grade) | Purified                | 81-6100                |
|  | FITC                    | 81-6111                |
|  | TRITC                   | 81-6114                |
|  | Cy™3                    | 81-6115                |
|  | Cy™5                    | 81-6116                |
|  | HRP                     | 81-6120                |
|  | AP                      | 81-6122                |
|  | Biotin                  | 81-6140                |

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