



Qty: 100 µg/400 µl

Rabbit anti-NFκB

Catalog No. 51-0500

Lot No. See product label

Rabbit anti-NFκB

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): P65C

IMMUNOGEN

A recombinant protein derived from the carboxyl terminal portion of the human NFκB protein

SPECIFICITY

This antibody is specific for the 65kDa, DNA binding subunit of human NFκB (also referred to as Rel A). Reactivity with other endogenous proteins has not been detected. Based on sequenced homology, reactivity with NFκB from mouse and rat appears likely.

REACTIVITY

SAMPLE	ELISA	Western Blotting*	IHC (FFPE)
Human		+ ^a	+++
Monkey		+ ^b	Not tested
Immunogen	+		

Tested with lysates of a) A431 and b) COS-7 cells

USAGE

Working concentrations for specific applications should be determined by the investigator. Optimal dilutions will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. We recommend the following ranges as starting points for this product.

ELISA: 0.1-1.0 µg/ml
Western Blotting: 1-3 µg/ml
Immunohistochemistry*: 0.5-2 µg/ml
Immunoprecipitation: 2-5 µg/IP

***Important:** To achieve appropriate staining results, heat-induced epitope retrieval (Citrate buffer, pH 6.0) is required.

STORAGE

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

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-dependant 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.

(cont'd)

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REFERENCES

1. Baueuerle, P and Baltimore, D., *Cell* 87:13-20 (1996)
2. Verma, I.M., et al., *Genes Dev.* 9:2723-2735 (1995)
3. Ghosh, S., et al., *Annu. Rev. Immunol.* 16:225-60 (1998)

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Mouse anti-NFκB (p65)	2A12A7	33-9900
Rabbit anti-NFκB (p50)	ZK50	51-3500
Rabbit anti-IKKα	N-16A	71-2300
Rabbit anti-MEKK1	ZK1	51-3400
Rabbit anti-Rip	Z-RG8	71-6800

*PAD: Polyclonal Antibody Designation

Product	Conjugate	Cat. No.
Goat anti-Rabbit IgG (H+L) (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

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

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