

NF κ B p50 Polyclonal Antibody

CATALOG #:	3354-100
AMOUNT:	100 μ g
LOT #:	_____
HOST:	Rabbit
IMMUNOGEN:	Synthetic peptide mapping to the N-terminus of human NF κ B p50.
SPECIES REACTIVITY:	human, mouse, rat

FORMULATION:

100 μ g (0.5 mg/ml) rabbit anti-NF κ B p50 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

STORAGE CONDITIONS:

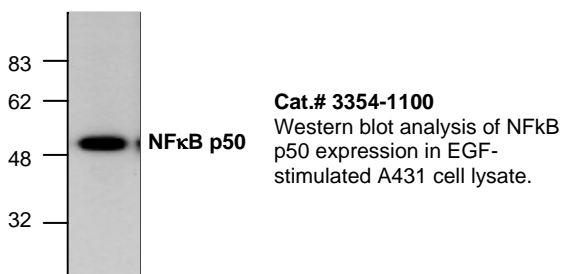
Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

BACKGROUND:

Nuclear factor kappa B (NF κ B) was identified as a sequence specific transcriptional activator that binds to the intronic enhancer of kappa light chain gene in B lymphocytes. NF κ B is a heterodimer that consists of a 50 kDa DNA binding subunit (p50) and a 65 kDa transactivation subunit (p65/RelA). Both of these subunits exhibit sequence homology to the protooncogene c-Rel. The p50 has an isoform called p49/p52, and both proteins are derived from the amino-terminal of precursor protein p105 and p100. The p50/p65 heterodimer remains in the cytosol in an inactive form as a complex with its inhibitor, I κ B. Upon stimulation of cells by a wide variety of stimuli such as lipopolysaccharide (LPS), pro-inflammatory cytokines (IL-1 & TNF, etc.), and viral infection, I κ B is phosphorylated and degraded by proteasome. The active NF κ B heterodimer is translocated into the nucleus and induces gene expression.

APPLICATIONS:

The antibody can be used for Western blotting (0.5-4 μ g/ml). However, the optimal conditions should be determined individually.



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