

NFκB p65 Monoclonal Antibody

CATALOG #:	3012-100
LOT #:	_____
HOST:	Mouse
ISOTYPE:	IgG ₁
MOL. WEIGHT:	65 kDa
IMMUNOGEN:	Human NFκB
SPECIES REACTIVITY:	Human, mouse, rat

ANTIBODY FORMULATION:

100 μg (200 μg/ml) in PBS containing 1 mg/ml BSA and 1.5 mM sodium azide and 50% glycerol.

STORAGE CONDITIONS:

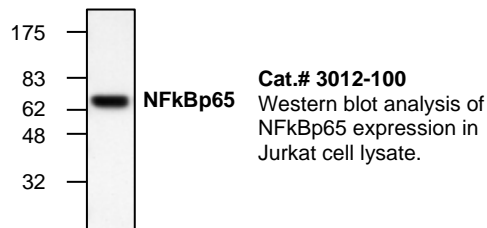
Store at -20°C. For long term storage, aliquot and refreeze at -70°C. Avoid repeated freeze/thaw cycles.

DESCRIPTION:

NFκB was identified as a sequence specific transcriptional activator that binds to the intronic enhancer of kappa light chain gene in B lymphocytes. NFκB 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/p65 heterodimer remains in the cytosol in an inactive form as a complex with its inhibitor, IκB. Upon stimulation of cells by a wide variety of stimuli such as lipopolysaccharide (LPS), pro-inflammatory cytokines, and viral infection. IκB is phosphorylated and degraded by proteasome. The active NFκB heterodimer is translocated into the nucleus and induces gene expression.

APPLICATIONS and USAGE:

Western blot analysis, immunoprecipitation, and immunohistochemistry. We recommend using 1-4 μg/ml for Western blot analysis. However, the optimal conditions should be determined individually. A431 cells can be used as a positive control.



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