

## NF $\kappa$ B p65 Antibody (Clone 2A12A7)

<b>CATALOG #:</b>	3012-100
<b>CLONE #:</b>	2A12A7
<b>HOST:</b>	Mouse
<b>ISOTYPE:</b>	IgG <sub>2a</sub>
<b>MOL. WEIGHT:</b>	65 kDa
<b>IMMUNOGEN:</b>	Human NF $\kappa$ B
<b>SPECIES REACTIVITY:</b>	Human, Mouse, Rat

### ANTIBODY FORMULATION:

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

### STORAGE CONDITIONS:

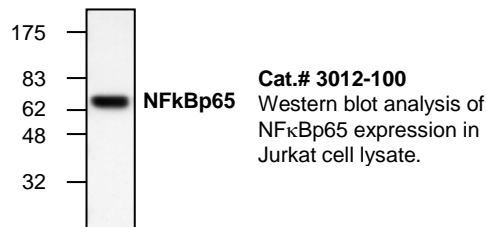
Store at -20°C. For long term storage, aliquot and refreeze at -70°C. Avoid repeated freeze/thaw cycles.

### DESCRIPTION:

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

### APPLICATIONS and USAGE:

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



### RELATED PRODUCTS:

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- Nuclear Apoptosis Kits & Reagents
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- Apoptosis siRNA Vectors

#### Cell Fractionation System

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- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
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- Senescence Detection Kit
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- Bioluminescence Cytotoxicity Assay Kit
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- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- $\beta$ -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

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**FOR RESEARCH USE ONLY! Not to be used on humans.**