

# NF $\kappa$ B p65 Monoclonal Antibody

<b>CATALOG #:</b>	3012-100
<b>LOT #:</b>	_____
<b>HOST:</b>	Mouse
<b>ISOTYPE:</b>	IgG <sub>1</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:

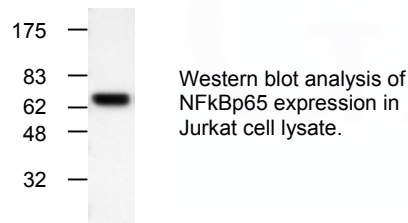
Store at -20°C. For long term storage, aliquot and refreeze at -70°C. Avoid repeated freeze/thaw cycles.

## 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:

### Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptotic Cell Isolation Kit

### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

### Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

### Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

### Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay Kit
- Total Cholesterol Quantification Kit

### Molecular Biology & Reporter Assays

- siRNA Vectors
- 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

### Growth Factors and Cytokines

### Quality Antibodies for Apoptosis and Signal Transduction Molecules