

# I $\kappa$ B $\alpha$ Monoclonal Antibody

<b>CATALOG #:</b>	3315-100
<b>AMOUNT:</b>	100 $\mu$ g
<b>LOT #:</b>	_____
<b>CLONE NO.</b>	6A055
<b>ISOTYPE:</b>	Mouse IgG <sub>1</sub>
<b>IMMUNOGEN:</b>	Recombinant human I $\kappa$ B $\alpha$
<b>SPECIES REACTIVITY:</b>	human, mouse

**FORMULATION:**

100  $\mu$ g (0.25 mg/ml) immunoaffinity purified mouse monoclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% thimerosal.

**STORAGE CONDITIONS:**

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

**BACKGROUND:**

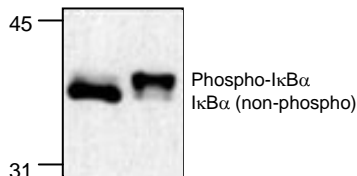
NF- $\kappa$ B is silenced in the cytoplasm by an inhibitory protein, I $\kappa$ B. I $\kappa$ B proteins are phosphorylated by I $\kappa$ B kinase complex consisting of at least three proteins, IKK1/ $\alpha$ , IKK2/ $\beta$ , and IKK3/ $\gamma$ . External stimuli such TNF- $\alpha$  or other cytokines results in phosphorylation and degradation of I $\kappa$ B releasing NF- $\kappa$ B dimers. NF- $\kappa$ B dimer subsequently translocates to the nucleus and activates target genes. Six members of I $\kappa$ B family members have been identified. One of the first gene induced following NF- $\kappa$ B activation is I $\kappa$ B $\alpha$ .

**APPLICATION AND USAGE:**

The antibody can be used in Western blotting (0.5-4  $\mu$ g/ml) and immunoprecipitation (1-4  $\mu$ g/ml). However, the optimal conditions should be determined individually.

**SPECIFICITY:**

The antibody detects both phosphorylated and non-phosphorylated forms of I $\kappa$ B $\alpha$ .



**Cat.# 3315-100**  
Western blot analysis of I $\kappa$ B $\alpha$  in Jurkat cells treated with (right lane) or without (left lane) TNF- $\alpha$  (1 nM).

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- Caspase Assay Kits & Reagents
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- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

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

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