# IκBα Antibody (Clone 6A055)

**CATALOG #**: 3315-100

**AMOUNT:** 100 μg

LOT #: \_\_\_\_\_

**CLONE NO.** 6A055

**ISOTYPE**: Mouse IgG<sub>1</sub>

IMMUNOGEN: Recombinant human lκBα

SPECIES REACTIVITY: 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:

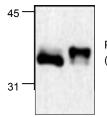
NF- $\kappa$ B is silenced in the cytoplasm by an inhibitory protein,  $I\kappa$ B.  $I\kappa$ B proteins are phosphorylated by  $I\kappa$ B kinase complex consisting of at least three proteins,  $IKK1/\alpha$ ,  $IKK2/\beta$ , and  $IKK3/\gamma$ . External stimuli such TNF- $\alpha$  or other cytokines 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  $I\kappa B\alpha$ .



Phospho-IκBα (non-phospho)

#### Cat.# 3315-100

Western blot analysis of  $l_KB\alpha$  in Jurkat cells treated with (right lane) or without (left lane) TNF- $\alpha$  (1 nM).

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