

I κ B α Antibody (Clone 6A055)

CATALOG #:	3315-100
AMOUNT:	100 μ g
LOT #:	_____
CLONE NO.	6A055
ISOTYPE:	Mouse IgG ₁
IMMUNOGEN:	Recombinant human I κ B α
SPECIES REACTIVITY:	human, mouse

FORMULATION:

100 μ 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/thaw cycles.

BACKGROUND:

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

APPLICATION AND USAGE:

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

SPECIFICITY:

The antibody detects both phosphorylated and non-phosphorylated forms of I κ B α .



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Western blot analysis of I κ B α in Jurkat cells treated with (right lane) or without (left lane) TNF- α (1 nM).

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