

# IKB Alpha Antibody (6A920)

Lot Number: RG2234273

Product Data Sheet

## Tested Species Reactivity

Human (Hu)  
Mouse (Ms)  
Rat (Rt)

Tested Applications	Dilution *
Western Blot (WB)	1-2 µg/ml
Immunofluorescence (IF)	1:10-1:500
Immunocytochemistry (ICC)	1:10-1:500
Immunohistochemistry (Paraffin) (IHC (P))	1:50
Flow Cytometry (Flow)	0.25-1 µg/10 <sup>6</sup> cells
Immunoprecipitation (IP)	1 µg/ml

\* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

## Details

<b>Catalog Number:</b>	MA5-16152
<b>Size:</b>	100 µg
<b>Class:</b>	Monoclonal
<b>Type:</b>	Antibody
<b>Clone:</b>	6A920
<b>Host / Isotype:</b>	Mouse / IgG1, kappa
<b>Immunogen:</b>	A recombinant protein corresponding to amino acid residues 32-291 of human IκBα was used as immunogen.

## Form Information

<b>Form:</b>	Liquid
<b>Concentration:</b>	0.5mg/ml
<b>Purification:</b>	Protein G
<b>Storage Buffer:</b>	PBS with 0.05% BSA
<b>Preservative:</b>	0.05% sodium azide
<b>Storage Conditions:</b>	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

## Product Specific Information

Suggested positive control: Daudi, Jurkat, or NIH-3T3.

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## General Information

NF-κB is silenced in the cytoplasm by an inhibitory protein, IκB (1). Synthesis of IκBα is autoregulated (2). IκB proteins are phosphorylated by IκB kinase complex consisting of at least three proteins, IKK1/α, IKK2/β, and IKK3/γ (3-6). External stimuli such as tumor necrosis factor or other cytokines results in phosphorylation and degradation of IκB releasing NF-κB dimers. NF-κB dimer subsequently translocates to the nucleus and activates target genes. Six members of IκB family members have been identified (1). One of the first gene induced following NF-κB activation is IκBα.

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