



# IκB-α Monoclonal Antibody

<b>Catalog No</b>	YP-Ab-01044
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat;Pig;sheep
<b>Applications</b>	WB
<b>Gene Name</b>	NFKBIA IKBA MAD3 NFKBI
<b>Protein Name</b>	NF-kappa-B inhibitor alpha
<b>Immunogen</b>	Purified recombinant human IκB-α (N-terminus) protein fragments expressed in E.coli.
<b>Specificity</b>	IκB-α Monoclonal Antibody detects endogenous levels of IκB-α protein.
<b>Formulation</b>	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	Affinity purification
<b>Dilution</b>	Western Blot: 1/1000 - 1/2000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	NFKBIA; IKBA; MAD3; NFKBI; NF-kappa-B inhibitor alpha; I-kappa-B-alpha; IκB-alpha; IkappaBalpa; Major histocompatibility complex enhancer-binding protein MAD3
<b>Observed Band</b>	36kD
<b>Cell Pathway</b>	Cytoplasm. Nucleus. Shuttles between the nucleus and the cytoplasm by a nuclear localization signal (NLS) and a CRM1-dependent nuclear export. .
<b>Tissue Specificity</b>	Brain,Kidney,Lymph node,Monocyte,
<b>Function</b>	disease:Defects in NFKBIA are the cause of ectodermal dysplasia anhidrotic with T-cell immunodeficiency autosomal dominant (AEDAID) [MIM:612132]. Ectodermal dysplasia defines a heterogeneous group of disorders due to abnormal development of two or more ectodermal structures. AEDAID is an ectodermal dysplasia associated with decreased production of pro-inflammatory cytokines and certain interferons, rendering patients susceptible to infection.,function:Inhibits the activity of dimeric NF-kappa-B/REL complexes by trapping REL dimers in the cytoplasm through masking of their nuclear localization signals. On cellular stimulation by immune and proinflammatory responses, becomes phosphorylated promoting ubiquitination and degradation, enabling the dimeric RELA to translocate to the nucleus and activate transcription.,induction:Induced in adherent monocytes.,online information:NFKBIA mutation



## Background

This gene encodes a member of the NF-kappa-B inhibitor family, which contain multiple ankrin repeat domains. The encoded protein interacts with REL dimers to inhibit NF-kappa-B/REL complexes which are involved in inflammatory responses. The encoded protein moves between the cytoplasm and the nucleus via a nuclear localization signal and CRM1-mediated nuclear export. Mutations in this gene have been found in ectodermal dysplasia anhidrotic with T-cell immunodeficiency autosomal dominant disease. [provided by RefSeq, Aug 2011],

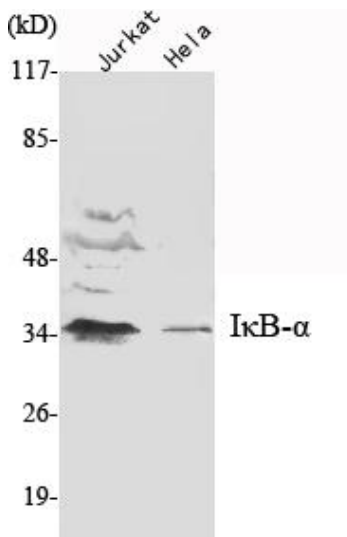
## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis using IκB-α Monoclonal Antibody against Jurkat, HeLa cell lysate.