

# NFKBIA Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO2059a

## Product Information

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<b>Application</b>	WB, IHC, FC, ICC, E
<b>Primary Accession</b>	<a href="#">P25963</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	4D4C4
<b>Isotype</b>	IgG1
<b>Calculated MW</b>	35609
<b>Description</b>	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.
<b>Immunogen</b>	Purified recombinant fragment of human NFKBIA (AA: 150-291) expressed in E. Coli.
<b>Formulation</b>	Purified antibody in PBS with 0.05% sodium azide

## Additional Information

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<b>Gene ID</b>	4792
<b>Other Names</b>	NF-kappa-B inhibitor alpha, I-kappa-B-alpha, Ikb-alpha, IkappaBalphabet, Major histocompatibility complex enhancer-binding protein MAD3, NFKBIA, IKBA, MAD3, NFKBI
<b>Dilution</b>	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	NFKBIA Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	NFKBIA
<b>Synonyms</b>	IKBA, MAD3, NFKBI
<b>Function</b>	Inhibits the activity of dimeric NF-kappa-B/REL complexes by trapping REL (RELA/p65 and NFKB1/p50) dimers in the cytoplasm by masking their nuclear localization signals (PubMed: <a href="#">1493333</a> , PubMed: <a href="#">36651806</a> , PubMed: <a href="#">7479976</a> ). On cellular stimulation by immune and pro-inflammatory responses, becomes phosphorylated promoting ubiquitination and degradation, enabling the dimeric RELA to translocate to the nucleus and activate transcription (PubMed: <a href="#">7479976</a> , PubMed: <a href="#">7628694</a> , PubMed: <a href="#">7796813</a> , PubMed: <a href="#">7878466</a> ).
<b>Cellular Location</b>	Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the cytoplasm by a nuclear localization signal (NLS) and a CRM1-dependent nuclear export.

## References

1.Mol Cancer. 2013 Dec 11;12:160.2.Acta Med Okayama. 2013;67(1):19-24.

## Images

