

IkBalpha Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10197**Specification**

IkBalpha Antibody - Product Information

Application	WB
Primary Accession	O9Z1E3
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	35071

IkBalpha Antibody - Additional Information**Gene ID** 18035**Application & Usage****Western blot (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Cross-reactivity to IkB-alpha of other species has not been determined.****Other Names**

NFKBIA, IKBA, MAD3, MAD-3, IkappaBalpha, I-kappa-B-alpha, # NFKBI, IkB-alpha, NF-kappa-B inhibitor alpha; I-kappa-B-alpha; IkappaBalpha; IkB-alpha

Target/Specificity

IkBalpha

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.2 mg/ml) affinity-purified rabbit anti-IkB-alpha polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, and 0.02% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

IkBalpha Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

IkBalpha Antibody - Protein Information

Name Nfkbia

Synonyms Ikba

Function

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:10097128, PubMed:9990853). 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:7878466, PubMed:10097128, PubMed:9990853).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P25963}. Nucleus {ECO:0000250|UniProtKB:P25963}. Note=Shuttles between the nucleus and the cytoplasm by a nuclear localization signal (NLS) and a CRM1- dependent nuclear export. {ECO:0000250|UniProtKB:P25963}

Tissue Location

Highly expressed in lymph node, thymus followed by liver, brain, muscle, kidney, gastrointestinal and reproductive tract

IkBalpha Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

IkBalpha Antibody - Images

IkBalpha Antibody - Background

IkB-alpha protein is a NF-kB inhibitory protein. It binds NF-kB and retains the complex in the cytoplasm, thereby preventing it from entering into nucleus and functioning as a transcription factor. Upon receiving a variety of signals, IkB-alpha undergoes phosphorylation at serine residues by an ubiquitin-dependent protein kinases and finally degraded by the proteasome. Free NF-kB then binds DNA and affects gene expression.