

IκBα Antibody (Clone 6A055)
Mouse Monoclonal Antibody
Catalog # ABV10239**Specification**

IκBα Antibody (Clone 6A055) - Product Information

Application	WB, IHC, IP
Primary Accession	P25963
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	35609

IκBα Antibody (Clone 6A055) - Additional Information**Gene ID** 4792

Application & Usage	Western blotting (0.5-4 µg/ml) and immunoprecipitation (1-4 µg/ml). However, the optimal conditions should be determined individually. The antibody detects both phosphorylated and non-phosphorylated forms of IκBα.
---------------------	---

Other Names

IkappaBα , MAD3, MAD-3, IκBA, NFKB1, IκB-α, I-κappa-B-α

Target/Specificity

IκBα

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (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.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

IκBα Antibody (Clone 6A055) is for research use only and not for use in diagnostic or therapeutic procedures.

IκBα Antibody (Clone 6A055) - Protein Information

Name NFKBIA

Synonyms IKBA, MAD3, NFKBI

Function

Inhibits the activity of dimeric NF-κappa-B/REL complexes by trapping REL (RELA/p65 and NFKB1/p50) dimers in the cytoplasm by masking their nuclear localization signals (PubMed:1493333, PubMed:7479976, PubMed:36651806). 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:7796813, PubMed:7628694, PubMed:7878466, PubMed:7479976).

Cellular Location

Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the cytoplasm by a nuclear localization signal (NLS) and a CRM1-dependent nuclear export.

IκBα Antibody (Clone 6A055) - 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](#)

IκBα Antibody (Clone 6A055) - Images

IκBα Antibody (Clone 6A055) - Background

NF-κB is silenced in the cytoplasm by an inhibitory protein, IκB. IκB proteins are phosphorylated by IκB 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 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. One of the first gene induced following NF-κB activation is IκBα.