

IκB-alpha (N-terminus) Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52716

Specification

IκB-alpha (N-terminus) Antibody - Product Information

Application	WB
Primary Accession	P25963
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	36 KDa

IκB-alpha (N-terminus) Antibody - Additional Information

Gene ID 4792

Other Names

I kappa B alpha;I kappa B alpha;I(Kappa)B(alpha);I(Kappa)B(alpha);I-kappa-B-alpha;IkappaBalpha;IκB-alpha;IKBA;IKBA;IKBA_HUMAN;IKBalpha;MAD 3;MAD 3;MAD3;Major histocompatibility complex enhancer binding protein MAD3;Major histocompatibility complex enhancer binding protein MAD3;Major histocompatibility complex enhancer-binding protein MAD3;NF kappa B inhibitor alpha;NF-kappa-B inhibitor alpha;NFKBI;NFKBI;NFKBIA; NFKBIA;Nuclear factor of kappa light chain gene enhancer in B cells;Nuclear factor of kappa light chain gene enhancer in B cells;Nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor alpha;Nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor alpha.

Dilution

WB~~1:1000

Format

Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.09% (W/V) sodium azide, 50% glycerol

Storage

Store at -20 °C.Stable for 12 months from date of receipt

IκB-alpha (N-terminus) Antibody - Protein Information

Name NFKBIA

Synonyms IKBA, MAD3, NFKBI

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:1493333, PubMed:36651806, PubMed:<a

[7479976](http://www.uniprot.org/citations/7479976)). 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: [7479976](http://www.uniprot.org/citations/7479976), PubMed: [7628694](http://www.uniprot.org/citations/7628694), PubMed: [7796813](http://www.uniprot.org/citations/7796813), PubMed: [7878466](http://www.uniprot.org/citations/7878466)).

Cellular Location

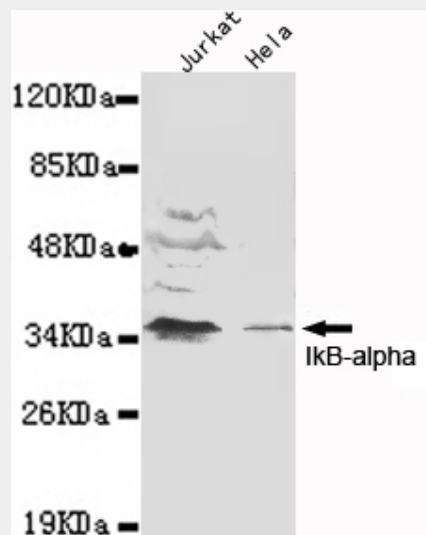
Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the cytoplasm by a nuclear localization signal (NLS) and a CRM1-dependent nuclear export.

I κ B-alpha (N-terminus) 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](#)

I κ B-alpha (N-terminus) Antibody - Images



Western blot detection of I κ B-alpha(N-terminus) in Jurkat and HeLa cell lysates using I κ B-alpha(N-terminus) mouse mAb (1:1000 diluted). Predicted band size: 36KDa. Observed band size: 36KDa.

I κ B-alpha (N-terminus) Antibody - Background

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.

I κ B-alpha (N-terminus) Antibody - References

Haskill S.,et al.Cell 65:1281-1289(1991).

Jungnickel B.,et al.J. Exp. Med. 191:395-402(2000).

Liu B.,et al.Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.

Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.

Ota T.,et al.Nat. Genet. 36:40-45(2004).