10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

IkB-alpha (N-terminus) Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52716

Product Information

Primary Accession	P25963
Host	Mouse
Clonality	Monoclonal
Calculated MW	35609

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;IkB-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.
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 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

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: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, PubMed:7628694, PubMed:7796813, PubMed: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.

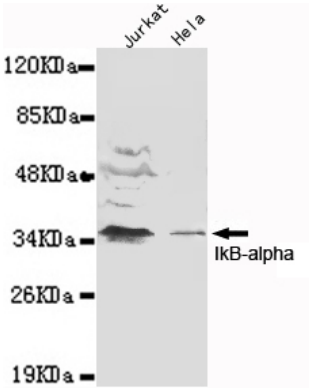
Background

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.

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).

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.