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IKB alpha Antibody

Rabbit mAb
Catalog # AP90093

Product Information

Application	WB, IHC, IF, ICC, IP, IHF
Primary Accession	P25963
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	I-kappa-B-alpha; NFKBI; NFKBIA; NF-kappaB inhibitor alpha; IKBA; IkappaBalpha; MAD3; RL/IF-1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	35609

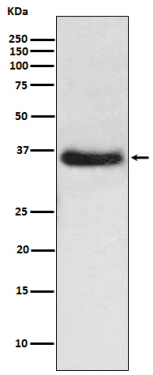
Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:30
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human IKB alpha
Description	NFKB1 (MIM 164011) or NFKB2 (MIM 164012) is bound to REL (MIM 164910), RELA (MIM 164014), or RELB (MIM 604758) to form the NFKB complex. The NFKB complex is inhibited by I-kappa-B proteins (NFKBIA or NFKBIB, MIM 604495), which inactivate NF-kappa-B by trapping it in the cytoplasm.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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.

Images



Western blot analysis of IKB alpha expression in HeLa cell lysate.

Image not found : 202311/AP90093-IHC.jpg

Immunohistochemical analysis of paraffin-embedded mouse stomach, using IKB alpha Antibody.

Image not found : 202311/AP90093-IF.jpg

Immunofluorescent analysis of Hela cells, using IKB alpha Antibody .

Image not found : 202311/AP90093-wb6.jpg

Synergistic protection of matrine and lycopene against lipopolysaccharide □induced acute lung injury in mice. -Molecular Medicine Reports

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