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IKB alpha Rabbit mAb

Catalog # AP74997

Product Information

Application	WB, IHC-P, FC, IP
Primary Accession	P25963
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	35609

Additional Information

Gene ID	4792
Other Names	NFKBIA
Dilution	WB~~1:2000-1:10000 IHC-P~~N/A FC~~1:20 IP~~1:20
Format	1xPBS(pH 7.4), 150mM NaCl, 50% Glycerol, 0.02% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

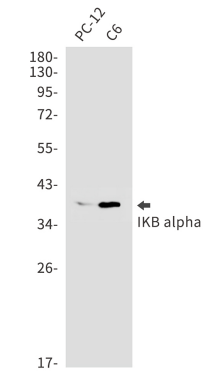
Protein Information

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.

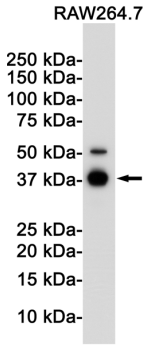
Background

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.

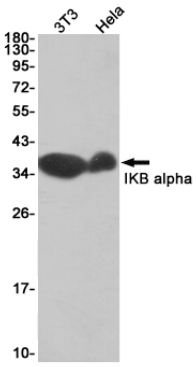
Images



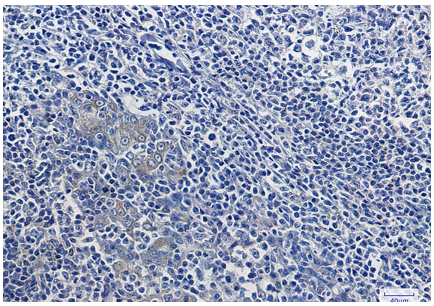
Western blot analysis of IKB alpha in PC-12, C6 lysates using IKB alpha antibody.



Western blot analysis of IKB alpha in Raw264.7 lysates using IKB alpha antibody.



Western blot analysis of IKB alpha in 3T3, Hela lysates using IKB alpha antibody



Immunohistochemistry analysis of paraffin-embedded Human tonsil using IKB alpha antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

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