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NFKBIA Antibody

Mouse Monoclonal Antibody (Mab)
Catalog # AM2205b

Product Information

Application	WB, E
Primary Accession	P25963
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,κ
Clone Names	1121CT8.6.1
Calculated MW	35609

Additional Information

Gene ID	4792
Other Names	NF-kappa-B inhibitor alpha, I-kappa-B-alpha, IkB-alpha, IkappaBalpha, Major histocompatibility complex enhancer-binding protein MAD3, NFKBIA, IKBA, MAD3, NFKBI
Target/Specificity	Purified His-tagged NFKBIA protein was used to produced this monoclonal antibody.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NFKBIA Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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.

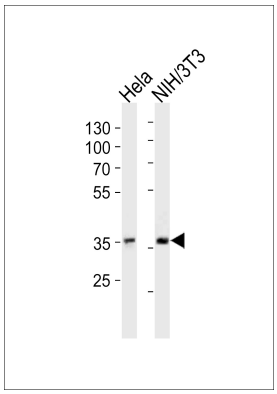
Background

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

Huxford T., et al. Cell 95:759-770(1998).
Cockman M.E., et al. Proc. Natl. Acad. Sci. U.S.A. 103:14767-14772(2006).
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.

Images



NFKBIA Antibody (Cat. #AM2205b) western blot analysis in Hela,mouse NIH/3T3 cell line lysates (35µg/lane).This demonstrates the NFKBIA antibody detected the NFKBIA protein (arrow).