

Rabbit anti-Human IκB alpha Monoclonal Antibody | anti-NFKBIA antibody

Recombinant Anti-IκB alpha Antibody, Rabbit Monoclonal

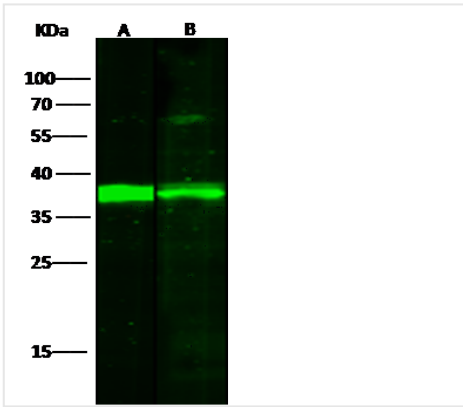
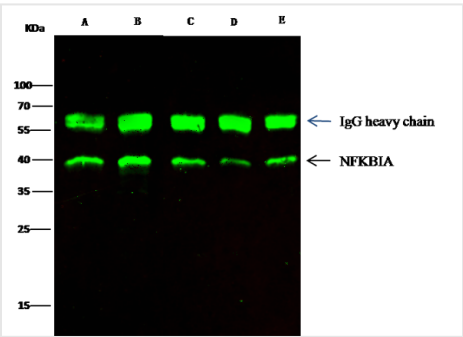
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255508	Rabbit	Human	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

IκB alpha; Monoclonal Antibody; Recombinant Anti-IκB alpha Antibody; Rabbit Monoclonal; IκB alpha/NFKBIA Antibody; Rabbit MAb; nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor; alpha; Anti-IKBA Antibody; Anti-MAD-3 Antibody; Anti-NFKBI Antibody; anti-NFKBIA antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	116
Specificity	Human IκB alpha/NFKBIA
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-NFKBIA antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human IκB alpha/NFKBIA Protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human IκB alpha/NFKBIA (rh IκB alpha/NFKBIA) .
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



IP (Immunoprecipitation)
NFKBIA was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate; Lane B: 0.5 mg 293T Whole Cell Lysate; Lane C: 0.5 mg A431 Whole Cell Lysate; Lane D: 0.5 mg Hela Whole Cell Lysate; Lane E: 0.5 mg K562 Whole Cell Lysate. 2 μ L anti-NFKBIA rabbit monoclonal antibody and 15 μ L of 50 % Protein G agarose. Primary antibody: Anti-NFKBIA rabbit monoclonal antibody, at 1:200 dilution. Secondary antibody: DyLight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 36 kDa. Observed band size: 36 kDa.

WB (Western Blot)
Anti-NFKBIA rabbit polyclonal antibody at 1:500 dilution. Lane A: HepG2 Whole Cell Lysate; Lane B: 293T Whole Cell Lysate. Lysates/proteins at 30 μ g per lane. Secondary: Goat Anti-Rabbit IgG H&L (DyLight800) at 1:10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 37 kDa. Observed band size: 38 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NFKBIA antibody	Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha (I κ B alpha, NFKBIA, or IKBA), is a member of the NF-kappa-B inhibitor family that function to inhibit the NF-kB transcription factor. NFKBIA inhibits NF-kB by masking the nuclear localization signals (NLS) of NF-kB proteins and keeping them sequestered in an inactive state in the cytoplasm. Also, NFKBIA blocks the ability of NF-kappaB transcription factors to bind to DNA, which is required for NF-kB's proper functioning. Signal-induced degradation of I kappa B alpha exposes the nuclear localization signal of NF-kappa B, thus allowing it to translocate into the nucleus and activate transcription from responsive genes. An autoregulatory loop is established when NF-kappa B induces expression of the I kappa B alpha gene and newly synthesized I kappa B alpha accumulates in the nucleus where it negatively regulates NF-kappa B-dependent transcription. As part of this post-induction repression, the nuclear export signal on I kappa B alpha mediates the transport of NF-kappa B-I kappa B alpha complexes from the nucleus to the cytoplasm. Deletion of NFKBIA has an effect that is similar to the effect of EGFR amplification in the pathogenesis of glioblastoma and is associated with comparatively short survival. Polymorphisms in NFKBIA may be important in pre-disposition to and outcome after treatment, of multiple myeloma (MM). The NFKBIA gene product, I kappa B alpha, binds to NF-kappaB preventing its activation and is important in mediating resistance to apoptosis in B-cell lymphoproliferative diseases.
Product Categories/Family for anti-NFKBIA antibody	Death Receptor Signaling
References	Verma IM, et al. (1995) Rel/NF-kappa B/I kappa B family: intimate tales of association and dissociation. Genes Dev. 9 (22): 2723-35. Jacobs MD, et al. (1998) Structure of an I kappa B alpha/NF-kappaB complex. Cell 95 (6): 749-58. Hay RT, et al. (1999) Control of NF-kappa B transcriptional activation by signal induced proteolysis of I kappa B alpha. Philos Trans R Soc Lond B Biol Sci. 354(1389): 1601-9. Spink CF, et al. (2007) Haplotypic structure across the I kappa B alpha gene (NFKBIA) and association with multiple myeloma. Cancer Lett. 246(1-2): 92-9. Bredel M, et al. (2011) NFKBIA deletion in glioblastomas. N Engl J Med. 364(7): 627-37.

NCBI AND UNIPROT INFORMATION

NCBI GI #	10092619
NCBI GeneID	4792
NCBI Accession #	NP_065390.1
NCBI GenBank Nucleotide #	NM_020529.2
UniProt Accession #	P25963; B2R8L6
Molecular Weight	35,609 Da
NCBI Official Full Name	NF-kappa-B inhibitor alpha

NCBI Official Synonym Full Names	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha
NCBI Official Symbol	NFKBIA
NCBI Official Synonym Symbols	IKBA; MAD-3; NFKBI
NCBI Protein Information	NF-kappa-B inhibitor alpha; ikB-alpha; IkappaBalpha; I-kappa-B-alpha; nuclear factor of kappa light chain gene enhancer in B-cells; major histocompatibility complex enhancer-binding protein MAD3
UniProt Protein Name	NF-kappa-B inhibitor alpha
UniProt Gene Name	NFKBIA
UniProt Synonym Gene Names	IKBA; MAD3; NFKBI; IkB-alpha
UniProt Entry Name	IKBA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/ikb-alpha-antibody-clone-116-immunoprecipitation-western-blot-elisa/255508>