

Rabbit Monoclonal Antibody to Human Nuclear Factor Of Kappa Light Polypeptide Gene Enhancer In B-cells Inhibitor, Alpha

Cat. No. CAB11587RH Lot. No. (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Human Nuclear Factor Of Kappa Light Polypeptide Gene Enhancer In B-cells Inhibitor, Alpha
Species	Human
Source	Rabbit
Antigen Description	NF-kappa-B inhibitor alpha, also known as Major histocompatibility complex enhancer-binding protein MAD3, I-kappa-B-alpha, NFKBIA and IKBA, is a cytoplasm and nucleus protein which belongs to the NF-kappa-B inhibitor family. NFKBIA contains five ANK repeats. NFKBIA 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, NFKBIA becomes phosphorylated promoting ubiquitination and degradation, enabling the dimeric RELA to translocate to the nucleus and activate transcription. Defects in NFKBIA are the cause of ectodermal dysplasia anhidrotic with T-cell immunodeficiency autosomal dominant (AEDAID). Ectodermal dysplasia defines a heterogeneous group of disorders due to abnormal development of two or more ectodermal structures. AEDAID is an ectodermal dysplasia associated with decreased production of pro-inflammatory cytokines and certain interferons, rendering patients susceptible to infection.

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Specificity	Human IκB alpha / NFκBIA. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.
Immunogen	Recombinant Human IκB alpha / NFκBIA Protein
Isotype	Rabbit IgG
Clone	A117
Applications	Western blot; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human NFκBIA in WB. Using a DAB detection system, the detection limit for Human NFκBIA is approximately 2 ng/lane under non-reducing conditions and 0.25 ng/lane under reducing conditions. Direct ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Human NFκBIA. The detection limit for Human NFκBIA is approximately 0.00245 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human IκB alpha / NFκBIA
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at - 20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

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GENE INFORMATION

Gene Name	NFKBIA nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha [Homo sapiens]
Official Symbol	NFKBIA
Synonyms	NFKBIA; nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha; NFKBI; NF-kappa-B inhibitor alpha; IkappaBalpha; IKBA; MAD 3; ikB-alpha; I-kappa-B-alpha; nuclear factor of kappa light chain gene enhancer in B-cells; major histocompatibility complex enhancer-binding protein MAD3; MAD-3;
Gene ID	4792
mRNA Refseq	NM_020529
Protein Refseq	NP_065390
MIM	164008
UniProt ID	P25963
Chromosome Location	14q13
Pathway	Activated TLR4 signalling, organism-specific biosystem; Activation of NF-kappaB in B Cells, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Apoptosis, organism-specific biosystem; Apoptosis, organism-specific biosystem;

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Function

NF-kappaB binding; NF-kappaB binding; enzyme binding; heat shock protein binding; identical protein binding; nuclear localization sequence binding; protein binding; transcription factor binding; ubiquitin protein ligase binding;

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