

Human IκB alpha/NFKBIA ELISA Kit | IκBalpha/NFKBIA elisa kit

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CATALOG #
AAA258444

REACTIVITY
Human

PRODUCT SYNONYMS

IκB alpha/NFKBIA; Human IκB alpha/NFKBIA ELISA Kit; IκB alpha ELISA Kit; Human; nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor; alpha; IκBA ELISA Kit; MAD-3 ELISA Kit; NFKBI ELISA Kit; IκBalpha/NFKBIA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of Human IκB alpha/NFKBIA concentration in cell lysate.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Lysate
Detection Range	12.5-800pg/mL
Sensitivity	3.6pg/mL
Conjugation	HRP
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

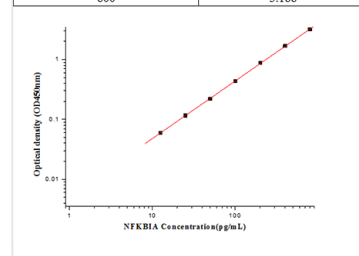
IMAGES

Recombinant human			
IL-1	IL-2	IL-33	IL-10
IL-8	TNF-α	IL-4	IL-6
IFN-γ	MIP-1β	TIMP-1	TIMP-2
GM-CSF	SCF	PDGF	VEGF

Application Data

This assay recognizes both recombinant and natural Human NFKBIA. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
12.5	0.060
25	0.116
50	0.220
100	0.436
200	0.886
400	1.681
800	3.188



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for IκBα/NFκBIA elisa kit	This IκB α ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human IκB α protein in Lysate. It contains recombinant Human IκB α, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha (IκB α, NFκBIA, or IKBA), is a member of the NF-kappa-B inhibitor family that function to inhibit the NF-kB transcription factor. NFκBIA 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, NFκBIA 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 α 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 α gene and newly synthesized I kappa B α 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 α mediates the transport of NF-kappa B-I kappa B α complexes from the nucleus to the cytoplasm. Deletion of NFκBIA 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 NFκBIA may be important in pre-disposition to and outcome after treatment, of multiple myeloma (MM). The NFκBIA gene product, IκappaBα, binds to NF-kappaB preventing its activation and is important in mediating resistance to apoptosis in B-cell lymphoproliferative diseases.
References	Verma IM, et al. (1995) Rel/NF-kappa B/I kappa B family: intimate tales of association and dissociation. <i>Genes Dev.</i> 9 (22): 2723-35. Jacobs MD, et al. (1998) Structure of an IκappaBα/NF-kappaB complex. <i>Cell</i> 95 (6): 749-58. Hay RT, et al. (1999) Control of NF-kappa B transcriptional activation by signal induced proteolysis of I kappa B α. <i>Philos Trans R Soc Lond B Biol Sci.</i> 354(1389): 1601-9. Spink CF, et al. (2007) Haplotypic structure across the I kappa B α gene (NFκBIA) and association with multiple myeloma. <i>Cancer Lett.</i> 246(1-2): 92-9. Bredel M, et al. (2011) NFκBIA deletion in glioblastomas. <i>N Engl J Med.</i> 364(7): 627-37.

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/ikbalph-nfkbia-human-elisa-kits/ikb-alpha-nfkbia/258444>