

Datasheet for ABIN3043889
anti-NFKBIA antibody (AA 3-112)[Go to Product page](#)

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Overview

Quantity:	100 µg
Target:	NFKBIA
Binding Specificity:	AA 3-112
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NFKBIA antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for NF-kappa-B inhibitor alpha(NFKBIA) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human IKB alpha recombinant protein (Position: Q3-Q112). Human IKB alpha shares 87% and 86% amino acid (aa) sequence identity with mouse and rat IKB alpha, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for NF-kappa-B inhibitor alpha(NFKBIA) detection. Tested with WB, IHC-P in Human,Mouse,Rat.</p> <p>Gene Name: nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha</p> <p>Protein Name: NF-kappa-B inhibitor alpha</p>

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: NFKBIA

Alternative Name: NFKBIA ([NFKBIA Products](#))

Background: NFKBIA, also called IKBA or MAD-3, is one member of a family of cellular proteins that function to inhibit the NF- κ B transcription factor. It is mapped to 14q13.2. NFKBIA inhibits NF- κ B by masking the nuclear localization signals(NLS) of NF- κ B proteins and keeping them sequestered in an inactive state in the cytoplasm. It moves between the cytoplasm and the nucleus via a nuclear localization signal and CRM1-mediated nuclear export. The effect of the nonpathogenic bacteria is specific to the SCF complex substrates CTNNB1 and NFKBIA. This may help to explain the beneficial effects of treatment of inflammatory bowel disease with nonpathogenic probiotic enteric organisms. In addition, NFKBIA blocks the ability of NF- κ B transcription factors to bind to DNA, which is required for NF- κ B's proper functioning.

Synonyms: I kappa B alpha antibody|I(Kappa)B(alpha) antibody|I-kappa-B-alpha antibody|IkappaBalphabet antibody|IKB-alpha antibody|IKBA antibody|IKBA_HUMAN antibody|IKBalphabet antibody|MAD 3 antibody|MAD3 antibody|Major histocompatibility complex enhancer binding protein MAD3 antibody|Major histocompatibility complex enhancer-binding protein MAD3 antibody|NF kappa B inhibitor alpha antibody|NF-kappa-B inhibitor alpha antibody|NFKBI antibody|NFKBIA antibody|Nuclear factor of kappa light chain gene enhancer in B cells antibody|Nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor alpha antibody

Gene ID: 4792

UniProt: [P25963](#)

Pathways: [NF-kappaB Signaling](#), [TCR Signaling](#), [TLR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Activation of Innate immune Response](#), [Cellular Response to Molecule of Bacterial Origin](#), [Maintenance of Protein Location](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [Toll-Like Receptors Cascades](#), [BCR Signaling](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 μ g/mL, Tested Species: Human, Mouse, Rat, The detection limit for IKB alpha is approximately 0.2 ng/lane under reducing conditions.

Application Details

IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.

Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.

It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in: Chen, Yan, Song, Chen, Wang, Niu, Shi, Zhang, Zhang, Zhai, Zhong, Cheng, Qian, Hao: "Downregulation of TNIP1 Expression Leads to Increased Proliferation of Human Keratinocytes and Severer Psoriasis-Like Conditions in an Imiquimod-Induced Mouse Model of Dermatitis." in: **PLoS ONE**, Vol. 10, Issue 6, pp. e0127957, (2016) ([PubMed](#)).

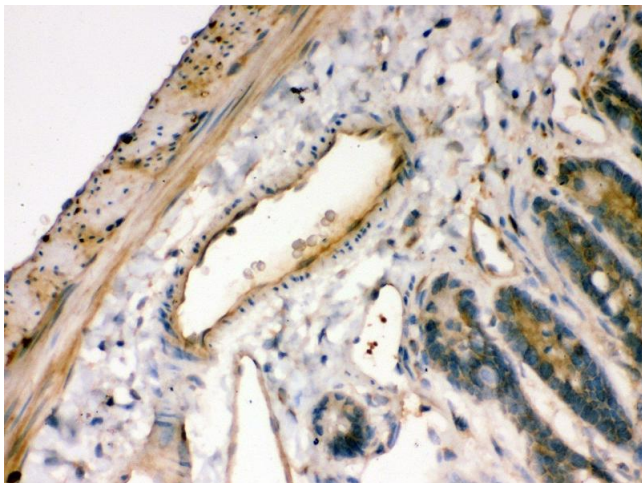
Wu, Luo, Zhou, Ren: "N-acetylcysteine reduces oxidative stress, nuclear factor-κB activity and cardiomyocyte apoptosis in heart failure." in: **Molecular medicine reports**, Vol. 10, Issue 2, pp.

615-24, (2015) ([PubMed](#)).

Liu, Yu, Yang, Zhou, Lu, Shi: "Mutations of NFKBIA in biopsy specimens from Hodgkin lymphoma." in: **Cancer genetics and cytogenetics**, Vol. 197, Issue 2, pp. 152-7, (2010) ([PubMed](#)).

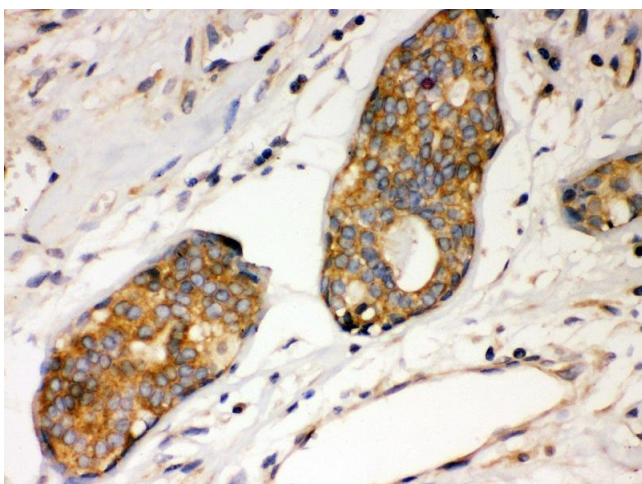
Chen, Yin, Wang, Mi, He, Xie, Wang: "Multi-gene targeted antiangiogenic therapies for experimental corneal neovascularization." in: **Molecular vision**, Vol. 16, pp. 310-9, (2010) ([PubMed](#)).

Images



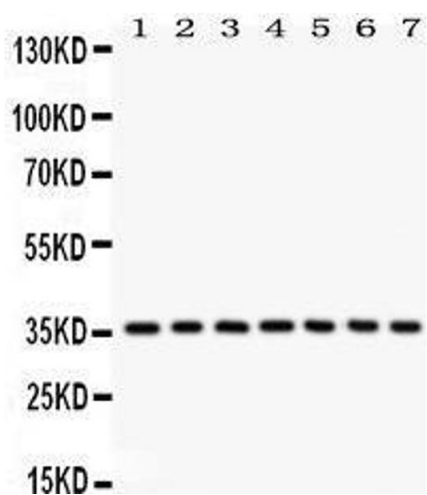
Immunohistochemistry

Image 1. Anti- IKB alpha Picoband antibody, IHC(P) IHC(P):
Rat Intestine Tissue



Immunohistochemistry

Image 2. Anti- IKB alpha Picoband antibody, IHC(P) IHC(P):
Human Mammary Cancer Tissue



Western Blotting

Image 3.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3043889.