BOSTER BIOLOGICAL TECHNOLOGY
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Anti-IKB alpha/NFKBIA Antibody Picoband®

Catalog Number: PB9291

About NFKBIA

NFKBIA, also called IKBA or MAD-3, is one member of a family of cellular proteins that function to inhibit the NF-kappaB transcription factor. It is mapped to 14q13.2. NFKBIA inhibits NF-kappaB by masking the nuclear localization signals (NLS) of NF-kappaB 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-kappaB transcription factors to bind to DNA, which is required for NF-kappaB's proper functioning.

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Overview

Product Name	Anti-IKB alpha/NFKBIA Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-IKB alpha/NFKBIA Antibody Picoband® catalog # PB9291. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P25963

Technical Details

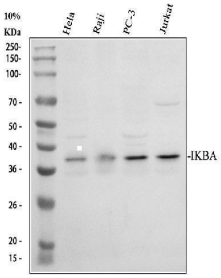
Immunogen	E.coli-derived human IKB alpha recombinant protein (Position: Q3-Q112). Human IKB alpha shares 87% and 86% amino acid (aa) sequence identity with mouse and rat IKB alpha, respectively.

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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human

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Anti-IKB alpha/NFKBIA Antibody Picoband® (PB9291) Images



Western blot analysis of IKB Alpha/NFKBIA using anti-IKB Alpha/NFKBIA antibody (PB9291). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human Raji whole cell lysates, Lane 3: human PC-3 whole cell lysates, Lane 4: human Jurkat whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-IKB Alpha/NFKBIA antigen affinity purified polyclonal antibody (PB9291) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for IKB Alpha/NFKBIA at approximately 39 kDa. The expected band size for IKB Alpha/NFKBIA is at 36 kDa.

13 Publications Citing This Product

1. PubMed ID: 10.1620/tjem.222.7, Growth Hormone Releasing Peptide-2, a Ghrelin Agonist, Attenuates Lipopolysaccharide-Induced Acute Lung Injury in Rats

2. PubMed ID: 10.3109/13880209.2014.898075, Effect of ammonium pyrrolidine dithiocarbamate (PDTC) on NF-kappaB activation and CYP2E1 content of rats with immunological liver injury

3. PubMed ID: 10.1016/j.jff.2015.08.032, Ameliorative effectiveness of allicin on acetaminophen-induced acute liver damage in mice

Visit bosterbio.com/anti-ikb-alpha-picoband-trade-antibody-pb9291-boster.html to see all 13 publications.

Anti-IKB alpha/NFKBIA Antibody

For Research Use Only. Not for use in diagnostic procedures.