

Anti-IkB Beta/NFKBIB Antibody Picoband®

Catalog Number: A05766-1

About NFKBIB

NF-kappa-B inhibitor beta is a protein that in humans is encoded by the NFKBIB gene. The protein encoded by this gene belongs to the NF-kappa-B inhibitor family, which inhibit NF-kappa-B by complexing with, and trapping it in the cytoplasm. Phosphorylation of serine residues on these proteins by kinases marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF-kappa-B, which translocates to the nucleus to function as a transcription factor. Alternatively spliced transcript variants have been found for this gene.

Overview

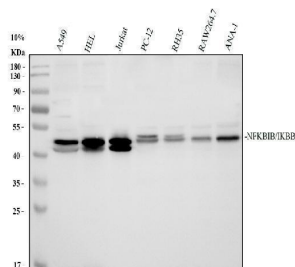
Product Name	Anti-IkB Beta/NFKBIB Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-IkB Beta/NFKBIB Antibody Picoband® catalog # A05766-1. Tested in WB, FCM, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium 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	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	Q15653

Technical Details

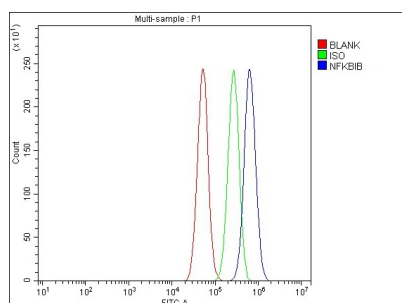
Immunogen	E.coli-derived human IkB Beta/NFKBIB recombinant protein (Position: T96-V356). Human NFKBIB shares 79.5% and 76.4% amino acid (aa) sequence identity with mouse and rat NFKBIB, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
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, 0.25-0.5 ug/ml, Human, Mouse, Rat

	Flow Cytometry (Fixed), 1-3 ug/1x10 ⁶ cells, Human ELISA, 0.1-0.5 ug/ml, -
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Anti-IkB Beta/NFKBIB Antibody Picoband® (A05766-1) Images



Western blot analysis of IkB Beta/NFKBIB using anti-IkB Beta/NFKBIB antibody (A05766-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human A549 whole cell lysates, Lane 2: human HEL whole cell lysates, Lane 3: human Jurkat whole cell lysates, Lane 4: rat PC-12 whole cell lysates, Lane 5: rat RH35 whole cell lysates, Lane 6: mouse RAW264.7 whole cell lysates, Lane 7: mouse ANA-1 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 Beta/NFKBIB antigen affinity purified polyclonal antibody (Catalog # A05766-1) 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 at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for IkB Beta/NFKBIB at approximately 48 kDa. The expected band size for IkB Beta/NFKBIB is at 38 kDa.



Flow Cytometry analysis of PC-3 cells using anti-IkB Beta/NFKBIB antibody (A05766-1). Overlay histogram showing PC-3 cells stained with A05766-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-IkB Beta/NFKBIB Antibody (A05766-1, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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Anti-IkB Beta/NFKBIB Antibody

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