

Anti-IKK beta/IKBKB Antibody Picoband®

Catalog Number: PB9221

About IKBKB

IKBKB (Inhibitor of Kappa Light Chain Gene Enhancer in B Cells, Kinase of, Beta), also known as IKKB or NFKB1KB, is a protein that in humans is encoded by the IKBKB gene. This gene is mapped to chromosome 8p12-p11 by FISH. It is found that mutations in IKK2 had a more pronounced effect upon NFkB activation than did comparable mutations in IKK1. The activity of various antiinflammatory agents on the IKK complex has been tested, it has been found that aspirin and sodium salicylate specifically inhibit IKK-beta activity in vitro and in vivo by binding to IKK-beta to reduce ATP binding.

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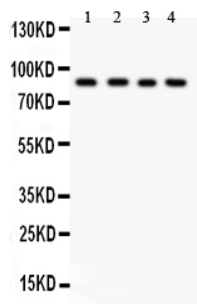
Overview

Product Name	Anti-IKK beta/IKBKB Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-IKK beta/IKBKB Antibody Picoband® catalog # PB9221. Tested in Flow Cytometry, IF, IHC, ICC, 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	Flow Cytometry, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	O14920

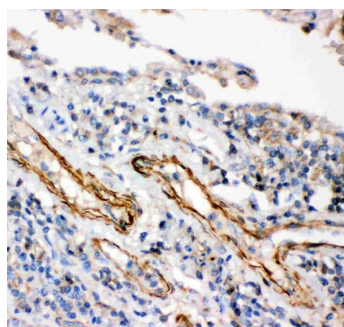
Technical Details

Immunogen	E.coli-derived human IKK beta recombinant protein (Position: E398-S756). Human IKK beta shares 91% and 90% amino acid (aa) sequences identity with mouse and rat IKK beta, respectively.
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) and ICC.
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 Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Immunocytochemistry/Immunofluorescence, 2ug/ml, Human Flow Cytometry (Fixed), 1-3ug/1x10⁶ cells, Human Note: For flow cytometry (FCM), validated for fixed cells only. Not validated for FACS or surface flow cytometry using live cells.

Anti-IKK beta/IKBKB Antibody Picoband® (PB9221) Images



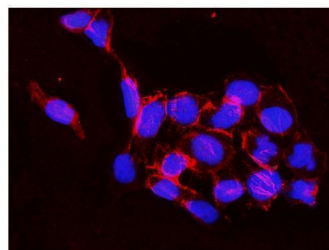
Anti-IKK beta antibody, PB9221, Western blotting All lanes:
Anti IKK beta (PB9221) at 0.5ug/ml Lane 1: HEPG2 Whole Cell Lysate at 40ug Lane 2: COLO320 Whole Cell Lysate at 40ug Lane 3: M231 Whole Cell Lysate at 40ug Lane 4: HT1080 Whole Cell Lysate at 40ug Predicted bind size: 87KD Observed bind size: 87KD



Anti-IKK beta antibody, PB9221, IHC(P) IHC(P): Human Lung Cancer Tissue

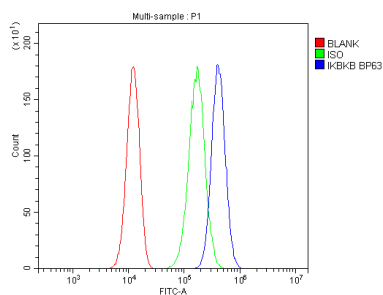


Anti-IKK beta antibody, PB9221, Western blotting All lanes:
Anti IKK beta (PB9221) at 0.5ug/ml WB: Recombinant Human IKK beta Protein 0.5ng Predicted bind size: 43KD Observed bind size: 43KD



IF analysis of IKK beta using anti-IKK beta antibody (PB9221). IKK beta was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2ug/mL rabbit anti-IKK beta Antibody (PB9221) overnight at 4°C. DyLight® 594 Conjugated Goat Anti-Rabbit IgG (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

Flow Cytometry analysis of 293T cells using anti-IKK beta antibody (PB9221). Overlay histogram showing 293T cells stained with PB9221 (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-IKK beta Antibody (PB9221, 1ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

Anti-IKK beta/IKBKB Antibody

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