

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.

Overview

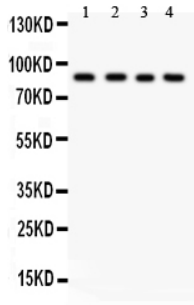
Product Name	Anti-IKK beta/IKBKB Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-IKK beta/IKBKB Antibody Picoband™ catalog # PB9221. Tested in Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human.
Application	Flow Cytometry, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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

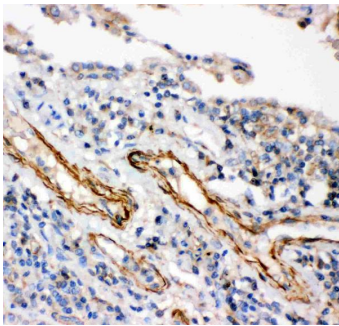
Immunogen	E.coli-derived human IKK beta recombinant protein (Position: E398-S756). Human IKK beta shares 91% and 90% amino acid (aa) sequences identity with mouse and rat IKK beta, respectively.
Predicted Reactive Species	Bovine, Horse, Monkey, Rabbit
Recommended Detection Systems	Boster recommends Enhanced 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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat Immunocytochemistry/Immunofluorescence, 2ug/ml, Human Flow Cytometry, 1-3ug/1x10⁶ cells, Human

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

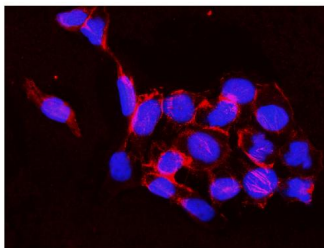
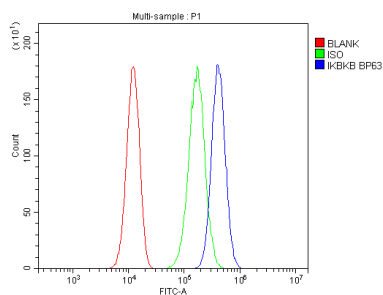


Figure 4. IF analysis of IKK beta using anti-IKK beta antibody (PB9221).
IKK beta was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated 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.

Figure 5. Flow Cytometry analysis of 293T cells using anti-IKK beta antibody (PB9221).
Overlay histogram showing 293T cells stained with PB9221 (Blue line). 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 (Red line) was also used as a control.

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Anti-IKK beta/IKBKB Antibody TM