

## Anti-IKK beta/IKBKB Antibody Picoband®

Catalog Number: PA2036-1

### 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. Shindo et al. (1998) mapped the IKBKB gene to chromosome 8p12-p11 by FISH. Mercurio et al. (1997) found that mutations in IKK2 had a more pronounced effect upon NFkB activation than did comparable mutations in IKK1. Yin et al. (1998) tested the activity of various antiinflammatory agents on the IKK complex. They demonstrated 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, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Description          | Boster Bio Anti-IKK beta/IKBKB Antibody catalog # PA2036-1. Tested in WB 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          | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Clonality            | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Formulation          | Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.<br>*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                     | A synthetic peptide corresponding to a sequence at the C-terminus of human IKK beta, identical to the related mouse sequence, and different from the related rat sequence by one amino acid. |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.                                                                                              |
| 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, Rat, Mouse                                                                                                                                                |

## Anti-IKK beta/IKBKB Antibody Picoband® (PA2036-1) Images



Anti-IKBKB antibody, PA2036-1, Western blotting All lanes:  
Anti IKBKB (PA2036-1) at 0.5ug/ml  
Lane 1: Rat Cardiac Muscle Tissue Lysate at 50ug  
Lane 2: Rat Skeletal Muscle Tissue Lysate at 50ug  
Lane 3: PANC Whole Cell Lysate at 40ug  
Lane 4: MCF-7 Whole Cell Lysate at 40ug  
Lane 5: HEPG2 Whole Cell Lysate at 40ug  
Lane 6: COLO320 Cell Lysate at 40ug  
Predicted bind size: 87KD  
Observed bind size: 87KD

## 3 Publications Citing This Product

1. PubMed ID: 10.3390/antiox10020176, Gastro-Protective Effects of Albizia anthelmintica Leaf Extract on Indomethacin-Induced Gastric Ulcer in Wistar Rats: In Silico and In Vivo Studies
2. PubMed ID: 10.1016/j.ejphar.2020.173136, Prolonged overnutrition with fructose or fat induces metabolic derangements in rats by disrupting the crosstalk between the hypothalamus and periphery: Possible amelioration with fenofibrate
3. PubMed ID: 33530540, Nabil M, El Raey MA, Abdo W, Abdelfattah MAO, El-Shazly AM, Sobeh M, Mahmoud MF. Gastro-Protective Effects of Albizia anthelmintica Leaf Extract on Indomethacin-Induced Gastric Ulcer in Wistar Rats: In Silico and In Vivo Studies. Antioxidants (Basel). 202

Visit [bosterbio.com/anti-ikk-beta-antibody-pa2036-1-boster.html](http://bosterbio.com/anti-ikk-beta-antibody-pa2036-1-boster.html) to see all 3 publications.

### Anti-IKK beta/IKBKB Antibody

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