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Anti-IKB Beta Picoband Antibody

Catalog # ABO11983

Specification

Anti-IKB Beta Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	Q15653
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for NF-kappa-B inhibitor beta(NFKBIB) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-IKB Beta Picoband Antibody - Additional Information

Gene ID 4793

Other Names
NF-kappa-B inhibitor beta, NF-kappa-BIB, I-kappa-B-beta, IkB-B, IkB-beta, IkappaBbeta, Thyroid receptor-interacting protein 9, TR-interacting protein 9, TRIP-9, NFKBIB, IKBB, TRIP9

Calculated MW
37771 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Cytoplasm . Nucleus .

Tissue Specificity
Expressed in all tissues examined.

Protein Name
NF-kappa-B inhibitor beta

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E.coli-derived human IKB beta recombinant protein (Position: E56-E237). Human IKB beta shares 82% and 80% amino acid (aa) sequence identity with mouse and rat IKB beta, respectively.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities
Belongs to the NF-kappa-B inhibitor family.

Anti-IKB Beta Picoband Antibody - Protein Information

Name NFKBIB

Synonyms IKBB, TRIP9

Function
Inhibits NF-kappa-B by complexing with and trapping it in the cytoplasm. However, the unphosphorylated form resynthesized after cell stimulation is able to bind NF-kappa-B allowing its transport to the nucleus and protecting it to further NFKBIA-dependent inactivation. Association with inhibitor kappa B-interacting NKIRAS1 and NKIRAS2 prevent its phosphorylation rendering it more resistant to degradation, explaining its slower degradation.

Cellular Location
Cytoplasm. Nucleus.

Tissue Location
Expressed in all tissues examined.

Anti-IKB Beta Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-IKB Beta Picoband Antibody - Images

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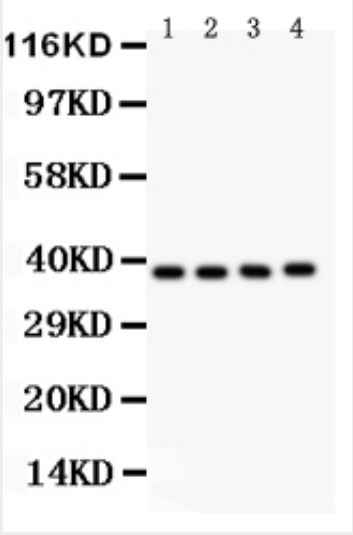
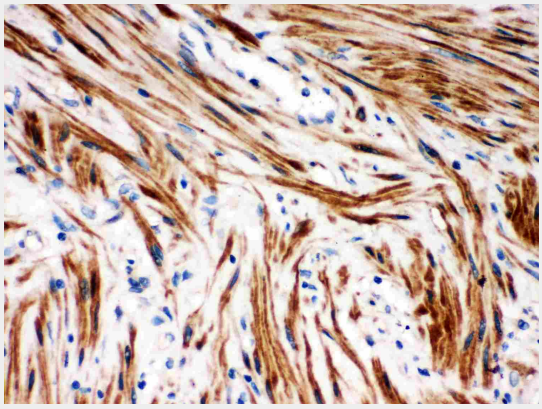
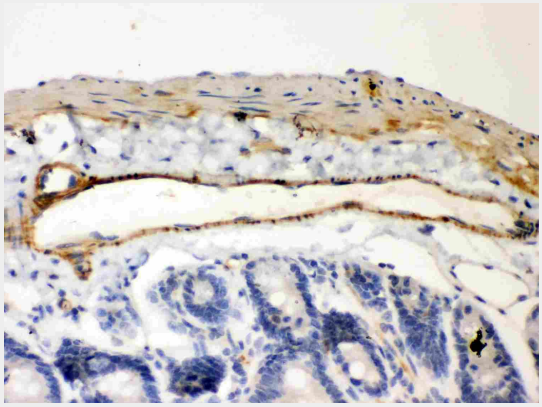


Anti- IKB beta Picoband antibody, ABO11983, Western blottingAll lanes: Anti IKB beta (ABO11983) at 0.5ug/mlLane 1: Mouse Kidney Tissue Lysate at 50ugLane 2: RH35 Whole Cell Lysate at 40ugLane 3: NRK Whole Cell Lysate at 40ugLane 4: HELA Whole Cell Lysate at 40ugPredicted bind size: 38KDObserved bind size: 38KD



Anti- IKB beta Picoband antibody, ABO11983,IHC(P)IHC(P): Human Intestinal Cancer Tissue



Anti- IKB beta Picoband antibody, ABO11983,IHC(P)IHC(P): Mouse Intestine Tissue

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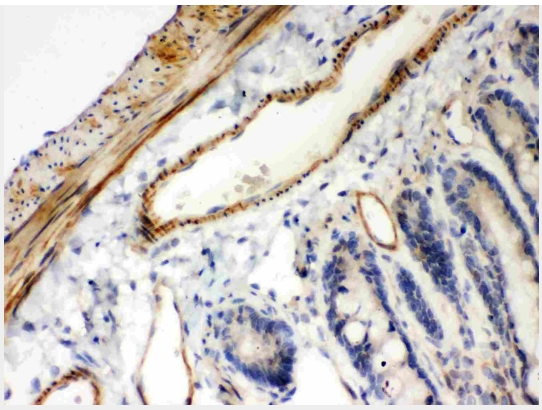

Anti- IKB beta Picoband antibody, ABO11983,IHC(P)IHC(P): Rat Intestine Tissue

Anti-IKB Beta Picoband Antibody - Background

NF-kappa-B inhibitor beta, also known as IKBB or TRIP9, 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. This gene is mapped to 19q13.2. It has been found that in vivo, NFKBIB serves both to inhibit and to facilitate the inflammatory response. NFKBIB degradation releases NF-kappa-B dimers, which upregulate proinflammatory target genes such as TNF-alpha. Surprisingly, absence of NFKBIB results in a dramatic reduction of TNF-alpha in response to lipopolysaccharide, even though activation of NF-kappa-B is normal.