

Anti-IKB Beta Picoband Antibody
Catalog # ABO11983**Specification****Anti-IKB Beta Picoband Antibody - Product Information**

Application	WB, IHC
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 Na₃.

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

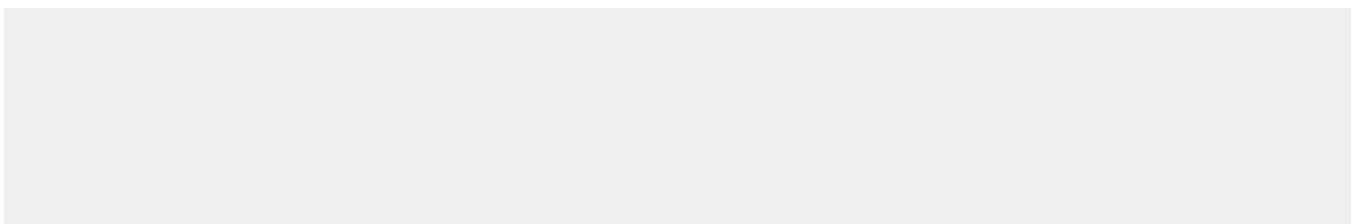
Expressed in all tissues examined.

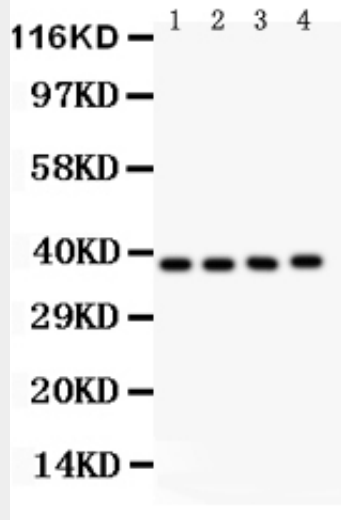
Anti-IKB Beta Picoband Antibody - Protocols

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

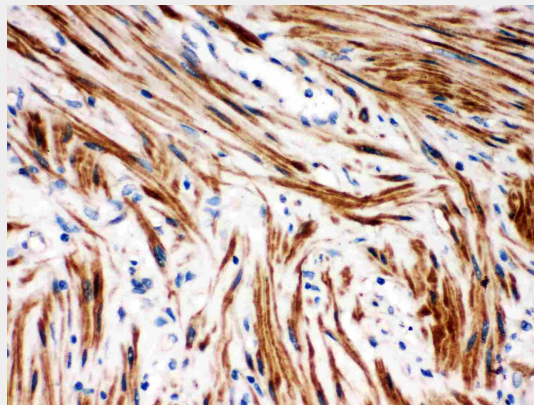
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-IKB Beta Picoband Antibody - Images

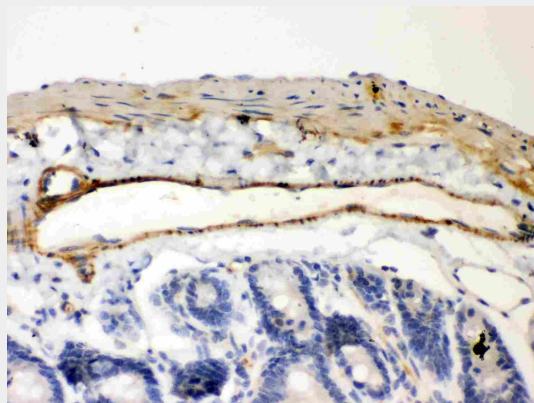




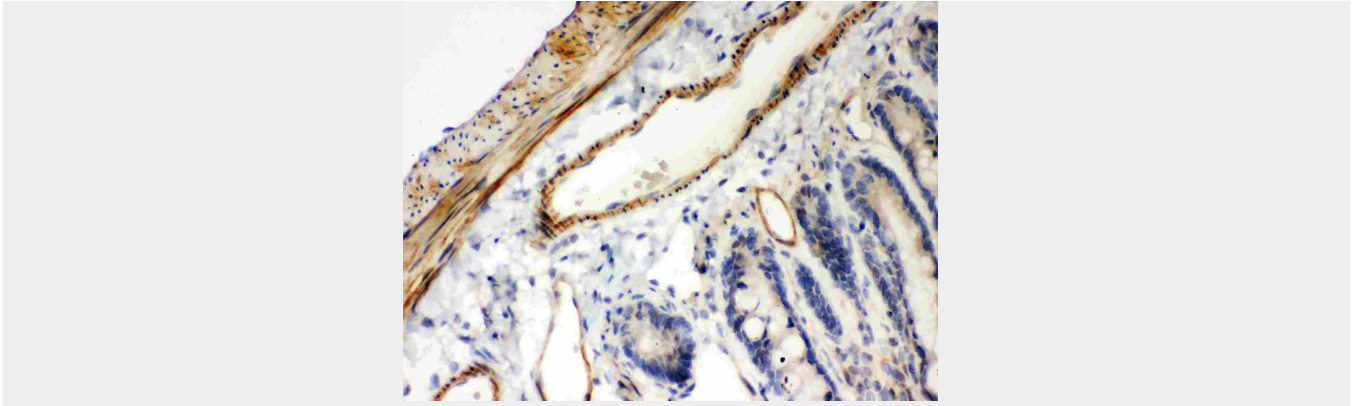
Anti- IKB beta Picoband antibody, ABO11983, Western blotting All lanes: Anti IKB beta (ABO11983) at 0.5ug/ml Lane 1: Mouse Kidney Tissue Lysate at 50ug Lane 2: RH35 Whole Cell Lysate at 40ug Lane 3: NRK Whole Cell Lysate at 40ug Lane 4: HELA Whole Cell Lysate at 40ug Predicted bind size: 38KD Observed 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



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.