BOSTER BIOLOGICAL TECHNOLOGY
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Anti-IL16 Antibody Picoband®

Catalog Number: PB9238

About IL16

Interleukin 16 (IL-16) is a cytokine that released by a variety of cells (including lymphocytes and some epithelial cells) that has been characterized as a chemoattractant for certain immune cells expressing the cell surface molecule CD4. It is mapped to 15q25.1. IL-16 was originally described as a factor that could attract activated T cells in humans. It was previously called lymphocyte chemoattractant factor (LCF), and the augmentation of IL16 stimulation by CCR5 plays a role in regulation of Th1 cell recruitment and activation at sites of inflammation.

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Overview

Product Name	Anti-IL16 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-IL16 Antibody Picoband® catalog # PB9238. Tested in ELISA, 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	ELISA, 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	Q14005

Technical Details

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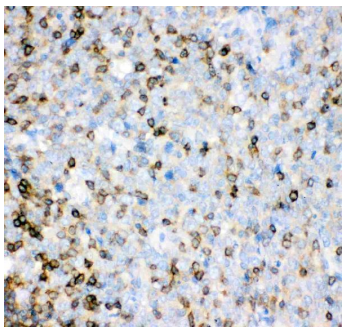
Immunogen	E.coli-derived human IL-16 recombinant protein (Position: S1212-S1332). Human IL-16 shares 86% amino acid (aa) sequence identity with mouse IL-16.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated 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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Immunocytochemistry , 0.5-1ug/ml, Human, - Western blot, 0.1-0.5ug/ml, Human ELISA, 0.1-0.5ug/ml, -

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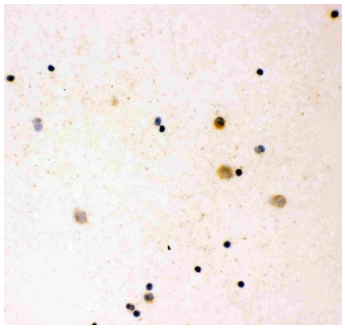
Anti-IL16 Antibody Picoband® (PB9238) Images



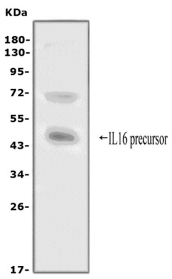
Anti-IL-16 antibody, PB9238, Western blottingAll lanes: Anti IL-16 (PB9238) at 0.5ug/mlWB: Recombinant Human IL-16 Protein 0.5ngPredicted bind size: 17KDObserved bind size: 17KD



Anti-IL-16 antibody, PB9238, IHC(P)IHC(P): Human Tonsil Tissue



IHC analysis of IL16 using anti-IL16 antibody (PB9238). IL16 was detected in immunocytochemical section of human cord blood. 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 1ug/ml rabbit anti-IL16 Antibody (PB9238) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



Western blot analysis of IL16 using anti-IL16 antibody (PB9238). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human U937 whole cell lysates, After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-IL16 antigen affinity purified polyclonal antibody (Catalog # PB9238) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for IL16 at approximately 45-55KD. The expected band size for IL16 is

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at 142KD.

1 Publications Citing This Product

1. PubMed ID: 10.1080/21655979.2021.2017566, microRNA-128-3p inhibits CD4+ regulatory T cells enrichment by targeting interleukin 16 in gastric cancer

Visit bosterbio.com/anti-il-16-picoband-trade-antibody-pb9238-boster.html to see all 1 publications.

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