

Anti-Macrophage Inflammatory Protein 4/CCL18 Antibody Picoband®

Catalog Number: PB9023

About CCL18

Macrophage Inflammatory Protein 4, also known as CCL18, is a small cytokine belonging to the CC chemokine family that was previously called PARC (pulmonary and activation-regulated chemokine). CCL18 is approximately 60% identical in amino acid sequence to CCL3. By analysis of a previously mapped CCL18 from 17q11.2, it is determined that the PARC gene is located within 1 of the 2 clusters of CC chemokine genes in this region. It is expressed at high levels in lung and at lower levels in certain lymphoid tissues, such as the lymph nodes, and is chemotactic for activated T cells and nonactivated lymphocytes. Beside, CCL18 recruits Th2 cells and basophils and may play a predominant role in allergic asthma.

Overview

Product Name	Anti-Macrophage Inflammatory Protein 4/CCL18 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Macrophage Inflammatory Protein 4/CCL18 Antibody Picoband® catalog # PB9023. Tested in ELISA, 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	WB, ELISA (Cap)
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg NaN ₃ . *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	P55774

Technical Details

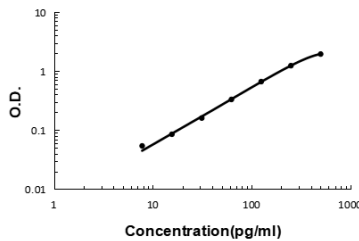
Immunogen	E.coli-derived human CCL18 recombinant protein (Position: A21-A89).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins

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, - ELISA(Cap) , 1-5ug/ml, Human

Anti-Macrophage Inflammatory Protein 4/CCL18 Antibody Picoband® (PB9023) Images



Western blot analysis of CCL18 using anti-CCL18 antibody (PB9023). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: Recombinant Human CCL18 Protein 0.5ng. 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-CCL18 antigen affinity purified polyclonal antibody (Catalog # PB9023) 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 CCL18 at approximately 19KD. The expected band size for CCL18 is at 19KD.



Sandwich ELISA - Recombinant human CCL18/PARC protein standard curve. Use in combination with reagents from Human CCL18/PARC ELISA Kit EZ-Set (DIY Antibody Pairs) (EZ0686).

1 Publications Citing This Product

1. PubMed ID: 33330947, Blum L, Ulshöfer T, Henke M, Krieg R, Berneburg I, Geisslinger G, Becker K, Parnham MJ, Schiffmann S. The immunomodulatory potential of the arylmethylaminosteroid sc1o. J Mol Med (Berl). 2020 Dec 17. doi: 10.1007/s00109-020-02024-4. Epub ahead of print. P

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