

Anti-RANTES/CCL5 Antibody Picoband®

Catalog Number: PB9573

About CCL5

Chemokine (C-C motif) ligand 5 (also CCL5) is a protein which in humans is encoded by the CCL5 gene. It is also known as RANTES. This gene is one of several chemokine genes clustered on the q-arm of chromosome 17. Chemokines form a superfamily of secreted proteins involved in immunoregulatory and inflammatory processes. The superfamily is divided into four subfamilies based on the arrangement of the N-terminal cysteine residues of the mature peptide. This chemokine, a member of the CC subfamily, functions as a chemoattractant for blood monocytes, memory T helper cells and eosinophils. It causes the release of histamine from basophils and activates eosinophils. This cytokine is one of the major HIV-suppressive factors produced by CD8+ cells. It functions as one of the natural ligands for the chemokine receptor chemokine (C-C motif) receptor 5 (CCR5), and it suppresses in vitro replication of the R5 strains of HIV-1, which use CCR5 as a coreceptor. Alternative splicing results in multiple transcript variants that encode different isoforms.

Overview

Product Name	Anti-RANTES/CCL5 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-RANTES/CCL5 Antibody Picoband® catalog # PB9573. 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	ELISA, WB
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 Na ₃ N. *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	P13501

Technical Details

Immunogen	E. coli-derived human RANTES recombinant protein (Position: Y26-S91). Human RANTES shares 83.3% amino acid (aa) sequence identity with both mouse and rat RANTES.
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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, 0.1-0.5ug/ml, -

Anti-RANTES/CCL5 Antibody Picoband® (PB9573) Images



Western blot analysis of RANTES using anti-RANTES antibody (PB9573). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: HUT Whole Cell Lysate at 40ug. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-RANTES antigen affinity purified polyclonal antibody (Catalog # PB9573) 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 1:5000 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 RANTES at approximately 11 kDa. The expected band size for RANTES is at 11 kDa.

3 Publications Citing This Product

1. PubMed ID: 10.1089/jir.2020.0050, Blockage of C-C Chemokine Ligand 2 Alleviated the Appendicitis-Induced Injury in Rabbit Model
2. PubMed ID: 25786351, Wei Jh, Feng X, Sun Zj, Cheng P, Ma Bf, Zhao J, Dong Yh, Zhang Yq, Li Z. *Reprod Fertil Dev.* 2015 Mar 19. Doi: 10.1071/Rd14231. [Epub Ahead Of Print] Different Locations Of Rantes And Its Receptors On Mouse Epididymal Spermatozoa.
3. PubMed ID: 20189554, Li Z, Sun Zj, Liao Cg, Ma L, Ma Bf, Zhang Yq. *Fertil Steril.* 2010 May 15;93(8):2661-7. Doi: 10.1016/J.Fertnstert.2010.01.053. Epub 2010 Mar 2. Regulated Upon Activation Normal T-Cell Expressed And Secreted Originating From The Epididymis Different...

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