

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.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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.
Predicted Reactive Species	Bovine
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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, -</p> <p>ELISA , 0.1-0.5ug/ml, Human</p>

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



Figure 1. 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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