

Anti-RANTES/CCL5 Antibody Picoband® Fluoro647 Conjugated

Catalog Number: PB9573-Fluoro647

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® Fluoro647 Conjugated
Reactive Species	Human
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
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.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro647 Excitation Wavelength: 650 nm

	Emission Wavelength: 665 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

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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