

Basic Information

Product Name	Anti-Rantes/CCL5 Antibody
Gene Name	CCL5
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
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.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	11 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Enzyme linked immunosorbent assay (ELISA):1:100-1000

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

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.

Reference

Anti-Rantes/CCL5 Antibody 被引用在5文献中。

Selected Validation Data

97KD —

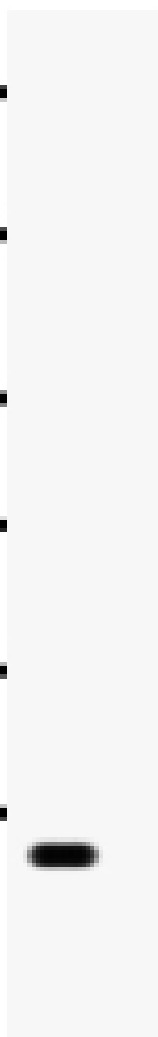
58KD —

40KD —

29KD —

20KD —

14KD —



Western blot analysis of Rantes/CCL5 using anti-Rantes/CCL5 antibody (PB0653). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: HUT whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Rantes/CCL5 antigen affinity purified polyclonal antibody (PB0653) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Rantes/CCL5 at approximately 11 kDa. The expected band size for Rantes/CCL5 is at 10 kDa.