

# CCL5 / RANTES Antibody (clone 50013-5)

Mouse Monoclonal Antibody Catalog # ALS14544

#### Specification

## CCL5 / RANTES Antibody (clone 50013-5) - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW WB, IHC <u>P13501</u> Human Mouse Monoclonal 10kDa KDa

#### CCL5 / RANTES Antibody (clone 50013-5) - Additional Information

Gene ID 6352

**Other Names** C-C motif chemokine 5, EoCP, Eosinophil chemotactic cytokine, SIS-delta, Small-inducible cytokine A5, T cell-specific protein P228, TCP228, T-cell-specific protein RANTES, RANTES(3-68), RANTES(4-68), CCL5, D17S136E, SCYA5

Target/Specificity Anti-Rantes recognizes recombinant protein Rantes.

**Reconstitution & Storage** Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

**Precautions** CCL5 / RANTES Antibody (clone 50013-5) is for research use only and not for use in diagnostic or therapeutic procedures.

### CCL5 / RANTES Antibody (clone 50013-5) - Protein Information

Name CCL5

Synonyms D17S136E, SCYA5

Function

Chemoattractant for blood monocytes, memory T-helper cells and eosinophils. Causes the release of histamine from basophils and activates eosinophils. May activate several chemokine receptors including CCR1, CCR3, CCR4 and CCR5. One of the major HIV-suppressive factors produced by CD8+ T-cells. Recombinant RANTES protein induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). The processed form RANTES(3-68) acts as a natural chemotaxis inhibitor and is a more potent inhibitor of HIV-1-infection. The second processed form RANTES(4-68) exhibits reduced chemotactic and HIV-suppressive activity compared with RANTES(1-68) and RANTES(3-68) (PubMed:<a href="http://www.uniprot.org/citations/16791620" target="\_blank">16791620</a>, PubMed:<a



href="http://www.uniprot.org/citations/1380064" target="\_blank">1380064</a>, PubMed:<a href="http://www.uniprot.org/citations/8525373" target="\_blank">8525373</a>, PubMed:<a href="http://www.uniprot.org/citations/9516414" target="\_blank">9516414</a>, PubMed:<a href="http://www.uniprot.org/citations/15923218" target="\_blank">15923218</a>). May also be an agonist of the G protein-coupled receptor GPR75, stimulating inositol trisphosphate production and calcium mobilization through its activation. Together with GPR75, may play a role in neuron survival through activation of a downstream signaling pathway involving the PI3, Akt and MAP kinases. By activating GPR75 may also play a role in insulin secretion by islet cells (PubMed:<a href="http://www.uniprot.org/citations/23979485" target=" blank">23979485</a>).

**Cellular Location** Secreted.

**Tissue Location** Expressed in the follicular fluid (at protein level). T-cell and macrophage specific.

Volume 50 μl

### CCL5 / RANTES Antibody (clone 50013-5) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

#### CCL5 / RANTES Antibody (clone 50013-5) - Images







# Anti-CCL5 / RANTES antibody IHC of human thyroid. CCL5 / RANTES Antibody (clone 50013-5) - Background

Chemoattractant for blood monocytes, memory T-helper cells and eosinophils. Causes the release of histamine from basophils and activates eosinophils. May activate several chemokine receptors including CCR1, CCR3, CCR4 and CCR5. One of the major HIV-suppressive factors produced by CD8+ T-cells. Recombinant RANTES protein induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). The processed form RANTES(3-68) acts as a natural chemotaxis inhibitor and is a more potent inhibitor of HIV-1- infection. The second processed form RANTES(4-68) exhibits reduced chemotactic and HIV-suppressive activity compared with RANTES(1- 68) and RANTES(3-68) and is generated by an unidentified enzyme associated with monocytes and neutrophils (PubMed:16791620, PubMed:1380064, PubMed:8525373, PubMed:9516414, PubMed:15923218). May also be an agonist of the G protein-coupled receptor GPR75, stimulating inositol trisphosphate production and calcium mobilization through its activation. Together with GPR75, may play a role in neuron survival through activation of a downstream signaling pathway involving the PI3, Akt and MAP kinases. By activating GPR75 may also play a role in insulin secretion by islet cells (PubMed:23979485).

### CCL5 / RANTES Antibody (clone 50013-5) - References

Schall T.J., et al.J. Immunol. 141:1018-1025(1988). Nomiyama H., et al.J. Interferon Cytokine Res. 19:227-234(1999). Capoulade-Metay C., et al.Immunogenetics 58:533-541(2006). Jang J.S., et al.Submitted (JAN-1998) to the EMBL/GenBank/DDBJ databases. Zeng Q.P., et al.Submitted (MAY-2000) to the EMBL/GenBank/DDBJ databases.