

# Anti-CCL5 Antibody

Catalog # AP53947

## Specification

## Anti-CCL5 Antibody - Product Information

WB, IHC
<u>P13501</u>
Human
Rabbit
Polyclonal
9990

## Anti-CCL5 Antibody - Additional Information

Gene ID 6352

**Other Names** D17S136E; SCYA5; 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

**Target/Specificity** Recognizes endogenous levels of CCL5 protein.

**Dilution** WB~~1/500 - 1/1000 IHC~~1:100~500

**Format** Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage Store at -20 °C.Stable for 12 months from date of receipt

## Anti-CCL5 Antibody - 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/1380064" target="\_blank">1380064</a>, PubMed:<a href="http://www.uniprot.org/citations/15923218" target="\_blank">15923218</a>, PubMed:<a href="http://www.uniprot.org/citations/16791620" target="\_blank">16791620</a>, PubMed:<a href="http://www.uniprot.org/citations/16791620" target="\_blank">8525373</a>, PubMed:<a href="http://www.uniprot.org/citations/16791620" target="\_blank">8525373</a>, PubMed:<a href="http://www.uniprot.org/citations/8525373" target="\_blank">9516414</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.

#### Anti-CCL5 Antibody - Protocols

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

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

#### Anti-CCL5 Antibody - Images



Western blot analysis of CCL5 expression in Jurkat (A) whole cell lysates.





Immunohistochemical analysis of CCL5 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

#### Anti-CCL5 Antibody - Background

Rabbit polyclonal antibody to CCL5