

Anti-CCL5 Antibody

Catalog # AP53947

Product Information

ApplicationWBPrimary AccessionP13501ReactivityHumanHostRabbitClonalityPolyclonalCalculated MW9990

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 KLH-conjugated synthetic peptide encompassing a sequence within the

C-term region of human CCL5. The exact sequence is proprietary.

Dilution WB~~1/500 - 1/1000

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

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

PubMed:<u>15923218</u>, PubMed:<u>16791620</u>, PubMed:<u>8525373</u>, PubMed:<u>9516414</u>). May also be an agonist of the G protein-coupled receptor GPR75, stimulating

compared with RANTES(1-68) and RANTES(3-68) (PubMed: 1380064,

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).

Cellular Location

Secreted.

Tissue Location

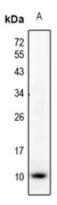
Expressed in the follicular fluid (at protein level). T-cell and macrophage

specific.

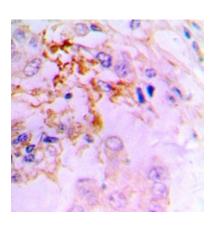
Background

Rabbit polyclonal antibody to CCL5

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.

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