Datasheet for ABIN674949

# anti-CCL5 antibody (AA 62-91)

1 Image | 7 Publications

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## Overview

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|---|---|
| Quantity: | 100 µL |
| Target: | CCL5 |
| Binding Specificity: | AA 62-91 |
| Reactivity: | Human, Mouse, Guinea Pig, Pig |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This CCL5 antibody is un-conjugated |
| Application: | ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

## Product Details

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| Immunogen: | KLH conjugated synthetic peptide derived from human CCL5 |
| Isotype: | IgG |
| Cross-Reactivity: | Guinea Pig, Human, Mouse, Pig |
| Predicted Reactivity: | Rat,Dog,Cow,Sheep,Rabbit |
| Purification: | Purified by Protein A. |

## Target Details

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|---|---|
| Target: | CCL5 |

## Target Details

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| Alternative Name: | CCL5/RANTES (CCL5 Products) |
| Background: | Synonyms: SISd, eoCP, SCYA5, RANTES, TCP228, D17S136E, SIS-delta, C-C motif chemokine 5, Eosinophil chemotactic cytokine, Small-inducible cytokine A5, T cell-specific protein P228, T-cell-specific protein RANTES, CCL5<br>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:1679162, PubMed:13864, 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). |
| Gene ID: | 6352 |
| UniProt: | P13501 |
| Pathways: | Cellular Response to Molecule of Bacterial Origin, Regulation of G-Protein Coupled Receptor Protein Signaling, Smooth Muscle Cell Migration |

## Application Details

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| Application Notes: | ELISA 1:500-1000<br>IHC-P 1:200-400<br>IHC-F 1:100-500<br>IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200 |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Concentration: | 1 μg/μL |
| Buffer: | 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol. |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. |
| Expiry Date: | 12 months |

## Publications

Product cited in:

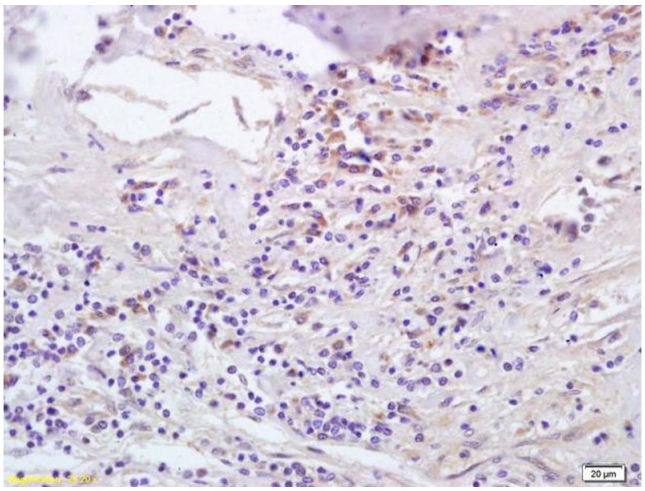
Irie, Tomofuji, Ekuni, Fukuhara, Uchida, Kataoka, Kobayashi, Kikuchi, Mitani, Shimazaki, Morita: " Age-related changes of CD4+T cell migration and cytokine expression in germ-free and SPF mice periodontium." in: **Archives of oral biology**, Vol. 87, pp. 72-78, (2018) (PubMed).

Sun, Roberts, Mauerhan, Hanley: "Biological effects and osteoarthritic disease-modifying activity of small molecule CM-01." in: **Journal of orthopaedic research : official publication of the Orthopaedic Research Society**, (2017) (PubMed).

Sun, Haines, Roberts, Ruffolo, Mauerhan, Mihalko, Ingram, Cox, Hanley: "Disease-modifying effects of phosphocitrate and phosphocitrate-β-ethyl ester on partial meniscectomy-induced osteoarthritis." in: **BMC musculoskeletal disorders**, Vol. 16, pp. 270, (2016) (PubMed).

Hwaiz, Rahman, Syk, Zhang, Thorlacius: "Rac1-dependent secretion of platelet-derived CCL5 regulates neutrophil recruitment via activation of alveolar macrophages in septic lung injury." in: **Journal of leukocyte biology**, (2015) (PubMed).

There are more publications referencing this product on: Product page




## Immunohistochemistry

**Image 1.** Formalin-fixed and paraffin embedded human lung carcinoma labeled with Anti-CCL5/RANTES Polyclonal Antibody, Unconjugated (ABIN674949) at 1:200 followed by conjugation to the secondary antibody and DAB staining.