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# CCL21 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10134c

## Product Information

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| **Application** | WB, IHC-P, E |
| **Primary Accession** | O00585 |
| **Other Accession** | NP_002980.1 |
| **Reactivity** | Human |
| **Predicted** | Canine, Rabbit |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB21868 |
| **Calculated MW** | 14646 |
| **Antigen Region** | 23-52 |

## Additional Information

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| **Gene ID** | 6366 |
| **Other Names** | C-C motif chemokine 21, 6Ckine, Beta-chemokine exodus-2, Secondary lymphoid-tissue chemokine, SLC, Small-inducible cytokine A21, CCL21, SCYA21 |
| **Target/Specificity** | This CCL21 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 23-52 amino acids from the Central region of human CCL21. |
| **Dilution** | WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | CCL21 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | CCL21 |
| **Synonyms** | SCYA21 |

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| **Function** | Binds to atypical chemokine receptor ACKR4 and mediates the recruitment of beta-arrestin (ARRB1/2) to ACKR4 (PubMed:23341447). Binds to chemokine receptor CCR7 (PubMed:9507024). Does not bind to chemokine receptor CXCR3 (PubMed:10201891). Binds to G protein-coupled receptor GPR174 (By similarity). Inhibits hemopoiesis and stimulates chemotaxis. Chemotactic in vitro for thymocytes and activated T-cells, but not for B-cells, macrophages, or neutrophils. Shows preferential activity towards naive T-cells. May play a role in mediating homing of lymphocytes to secondary lymphoid organs. |
| **Cellular Location** | Secreted. |
| **Tissue Location** | Highly expressed in high endothelial venules of lymph nodes, spleen and appendix. Intermediate levels found in small intestine, thyroid gland and trachea. Low level expression in thymus, bone marrow, liver, and pancreas. Also found in tonsil, fetal heart and fetal spleen |

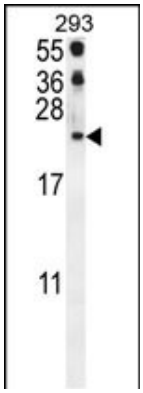
## Background

This gene is one of several CC cytokine genes clustered on the p-arm of chromosome 9. Cytokines are a family of secreted proteins involved in immunoregulatory and inflammatory processes. The CC cytokines are proteins characterized by two adjacent cysteines. Similar to other chemokines the protein encoded by this gene inhibits hemopoiesis and stimulates chemotaxis. This protein is chemotactic in vitro for thymocytes and activated T cells, but not for B cells, macrophages, or neutrophils. The cytokine encoded by this gene may also play a role in mediating homing of lymphocytes to secondary lymphoid organs. It is a high affinity functional ligand for chemokine receptor 7 (CCR7) that is expressed on T and B lymphocytes and a known receptor for another member of the cytokine family (small inducible cytokine A19). [provided by RefSeq].

## References

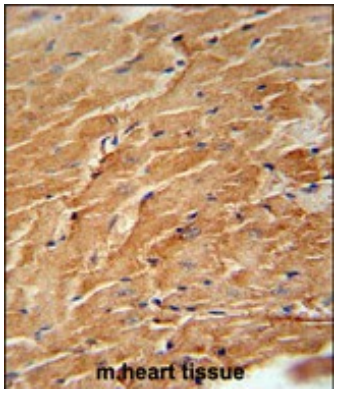
Rey-Gallardo, A., et al. Glycobiology 20(9):1139-1146(2010) Cuesta-Mateos, C., et al. Exp. Hematol. 38(9):756-764(2010) Sundqvist, J., et al. Fertil. Steril. (2010) In press : Plant, D., et al. Ann. Rheum. Dis. 69(8):1548-1553(2010) Farragher, T.M., et al. Arthritis Care Res (Hoboken) 62(5):676-682(2010)

## Images




CCL21 Antibody (Center) (Cat. #AP10134c) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the CCL21 antibody detected the CCL21 protein (arrow).

CCL21 Antibody (Center) (Cat. #AP10134c) immunohistochemistry analysis in formalin fixed and paraffin embedded mouse heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CCL21 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.




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