

CCL21 Rabbit pAb

Catalog # AP96940

Product Information

Application	WB, E
Primary Accession	O00585
Other Accession	O00585
Predicted	Rat, Pig, Human, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	14646
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CCL21
Epitope Specificity	24-134/134
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the intercrine beta (chemokine CC) family.
DISEASE	Note=Mice carrying an autosomal recessive mutation designated paucity of lymph node T-cells (plt) show dramatically reduced numbers of T-cells in lymph nodes, Peyer patches, and the white pulp of the spleen. Plt seems to correspond to Scya21b.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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, Jul 2008].

Additional Information

Gene ID	6366
Other Names	6Ckine; CKb9; ECL; SCYA21; SLC; TCA4; CCL21_HUMAN; CCL21; Beta-chemokine exodus-2; Secondary lymphoid-tissue chemokine (SLC); Small-inducible cytokine A21; C-C motif chemokine ligand 21; small inducible cytokine subfamily A (Cys-Cys), member 21; chemokine (C-C motif) ligand 21; beta chemokine exodus-2; secondary lymphoid tissue chemokine; Efficient Chemoattractant for Lymphocytes

Dilution	WB=1:500-2000,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CCL21
Synonyms	SCYA21
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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.