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CCL20 Antibody (internal region)

Peptide-affinity purified goat antibody

Catalog # AF3034a

Specification

CCL20 Antibody (internal region) - Product Information

Application	**IHC, E**
Primary Accession	P78556
Other Accession	NP_004582.1, NP_001123518.1, 6364
Reactivity	**Human**
Predicted	**Pig**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**10762**

CCL20 Antibody (internal region) - Additional Information

Gene ID 6364

Other Names
C-C motif chemokine 20, Beta-chemokine exodus-1, CC chemokine LARC, Liver and activation-regulated chemokine, Macrophage inflammatory protein 3 alpha, MIP-3-alpha, Small-inducible cytokine A20, CCL20(1-67), CCL20(1-64), CCL20(2-70), CCL20, LARC, MIP3A, SCYA20

Dilution
IHC~~1:100~500
E~~N/A

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CCL20 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

CCL20 Antibody (internal region) - Protein Information

Name CCL20

Synonyms LARC, MIP3A, SCYA20

Function
Acts as a ligand for C-C chemokine receptor CCR6. Signals through binding and activation of CCR6 and induces a strong chemotactic response and mobilization of intracellular calcium ions (PubMed:11035086, PubMed:11352563, PubMed:20068036). The ligand- receptor pair CCL20-CCR6 is responsible for the chemotaxis of dendritic cells (DC), effector/memory T-cells and B-cells and plays an important role at skin and mucosal surfaces under homeostatic and inflammatory conditions, as well as in pathology, including cancer and various autoimmune diseases (PubMed:21376174). CCL20 acts as a chemotactic factor that attracts lymphocytes and, slightly, neutrophils, but not monocytes (PubMed:11352563, PubMed:9038201). Involved in the recruitment of both the pro-inflammatory IL17 producing helper T-cells (Th17) and the regulatory T-cells (Treg) to sites of inflammation. Required for optimal migration of thymic natural regulatory T cells (nTregs) and DN1 early thymocyte progenitor cells (By similarity). C- terminal processed forms have been shown to be equally chemotactically active for leukocytes (PubMed:11035086). Positively regulates sperm motility and chemotaxis via its binding to CCR6 which triggers Ca2+ mobilization in the sperm which is important for its motility (PubMed:23765988, PubMed:25122636). Inhibits proliferation of myeloid progenitors in colony formation assays (PubMed:9129037). May be involved in formation and function of the mucosal lymphoid tissues by attracting lymphocytes and dendritic cells towards epithelial cells (By similarity). Possesses antibacterial activity towards E.coli ATCC 25922 and S.aureus ATCC 29213 (PubMed:12149255).

Cellular Location
Secreted.

Tissue Location
Expressed in the seminal plasma, endometrial fluid and follicular fluid (at protein level). Expressed predominantly in the liver, lymph nodes, appendix, peripheral blood lymphocytes, and fetal lung. Low levels seen in thymus, prostate, testis, small intestine and colon.

CCL20 Antibody (internal region) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CCL20 Antibody (internal region) - Images

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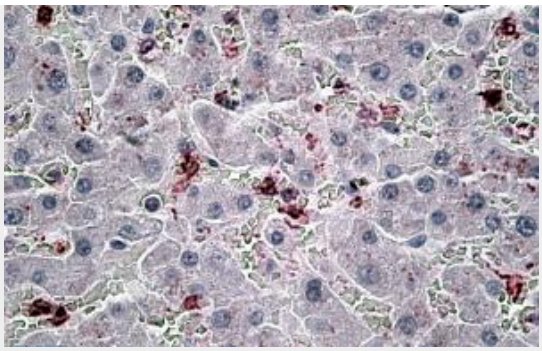

AF3034a (6 µg/ml) staining of paraffin embedded Human Liver. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

CCL20 Antibody (internal region) - Background

This antibody is expected to recognize both isoforms (NP_004582.1; NP_001123518.1).

CCL20 Antibody (internal region) - References

Induction of CCL20 production by Kaposi sarcoma-associated herpesvirus: role of viral FLICE inhibitory protein K13-induced NF-kappaB activation. Punj V, Matta H, Schamus S, Yang T, Chang Y, Chaudhary PM, Blood 2009 May 113 (22): 5660-8. PMID: 19324905