**Human CCL20/MIP-3α Antibody**

**Antigen Affinity-purified Polyclonal Goat IgG**

**Catalog Number:** AF360

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**DESCRIPTION**

**Species Reactivity:** Human

**Specificity:** Detects human CCL20/MIP-3α in direct ELISAs. In direct ELISAs, less than 10% cross-reactivity with recombinant mouse Teck is observed.

**Source:** Polyclonal Goat IgG

**Purification:** Antigen Affinity-purified

**Immunogen:** E. coli-derived recombinant human CCL20/MIP-3α

**Accession #** P78556

**Endotoxin Level:** <0.10 EU per 1 μg of the antibody by the LAL method.

**Formulation:** Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.*

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

**Recommended Concentration**

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<th>Sample</th>
<th>Immunocytochemistry</th>
<th>Immunohistochemistry</th>
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<tr>
<td></td>
<td>5-15 µg/mL</td>
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**Neutralization**

Measured by its ability to neutralize CCL20/MIP-3α-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR6. The Neutralization Dose (ND50) is typically 0.2-1.0 µg/mL in the presence of 10 ng/mL Recombinant Human CCL20/MIP-3α.

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**DATA**

**Immunocytochemistry**

CCL20/MIP-3α in Human PBMCs. CCL20/MIP-3α was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) stimulated with LPS using Human CCL20/MIP-3α Antigen Affinity-purified Polyclonal Antibody (Catalog # AF360) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (yellow; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

**Immunohistochemistry**

CCL20/MIP-3α in Human Skin. CCL20/MIP-3α was detected in immersion fixed paraffin-embedded sections of human skin using Goat Anti-Human CCL20/MIP-3α Antigen Affinity-purified Polyclonal Antibody (Catalog # AF360) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

**Neutralization**

Chemotaxis Induced by CCL20/MIP-3α and Neutralization by Human CCL20/MIP-3α Antibody. Recombinant Human CCL20/MIP-3α (Catalog # 360-2MP) chemotactically attracts the BaF3 mouse pro-B cell line transfected with human CCR6 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # AR002). Chemotaxis elicited by Recombinant Human CCL20/MIP-3α (10 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Human CCL20/MIP-3α Antigen Affinity-purified Polyclonal Antibody (Catalog # AF360). The ND50 is typically 0.2-1.0 µg/mL.
PREPARATION AND STORAGE

Reconstitution
Reconstitute at 0.2 mg/mL in sterile PBS.

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage
Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CCL20, also known as LARC (Liver and Activation-regulated Chemokine) and as Exodus, is one of many novel β chemokines identified through bioinformatics. CCL20 cDNA encodes a 96 amino acid (aa) residue precursor protein with a 26 aa residue signal peptide that is predicted to be cleaved to form the 70 aa residue mature secreted protein. CCL20 is distantly related to other β chemokines (20 - 28% aa sequence identity) and the gene for CCL20 has been mapped to chromosome 2 rather than 17.

CCL20 has been shown to be expressed predominantly in lymph nodes, appendix, PBL, fetal liver, fetal lung and several cell lines. The expression of CCL20 is strongly up-regulated by inflammatory signals and down-regulated by the anti-inflammatory cytokine IL-10. Synthetic or recombinant CCL20 has been shown to be chemotactic for lymphocytes and to inhibit proliferation of myeloid progenitors in colony formation assays. CCL20 has now been shown to be a unique functional ligand for CCR-6 (previously referred to as GPR-CY4, CKR-L3, or STRL22 orphan receptor), a chemokine receptor that is selectively and highly expressed in human dendritic cells derived from CD34+ cord blood precursors.

References: