

Purified anti-human CCL20 (MIP-3α) Antibody

Catalog# / Size	534502 / 500 µg
Clone	L2412F11
Regulatory Status	RUO
Other Names	CCL20, MIP-3α, MIP-3a, Chemokine (C-C motif) ligand 20, liver activation regulated chemokine, LARC, Macrophage Inflammatory Protein-3α, MIP-3-alpha
Isotype	Mouse IgG2b, κ
Description	<p>CCL20 (MIP-3α) belongs to the CC chemokine family. Human CCL20 is a protein of 96 amino acids, which shares the highest homology of 28% amino acid identity with MIP-1β and 64% amino acid sequence identity with the mouse CCL20. CCL20 is produced by activated monocytes, T cells, neutrophils, endothelial cells, epithelial cells and fibroblasts. Its expression is induced by lipopolysaccharide (LPS) and inflammatory cytokines such as tumor necrosis factor, IL-1β and interferon-γ, and downregulated by IL-10.</p> <p>CCL20 is the ligand for chemokine receptor CCR6, which is expressed on memory T cells, B cells, and immature dendritic cells (DCs). Therefore, it is involved in the regulation of DC trafficking and recruitment and activation of T cells. CCL20 also has potent antimicrobial activity.</p> <p>Upregulation of CCL20 plays important roles in autoimmune processes. This includes pathologies of the central nerve system (MS), pathogenesis of encephalomyelitis, psoriasis, rheumatoid arthritis, and inflammatory bowel diseases. CCL20 is also involved in various cancers, such as gastrointestinal cancers, pancreatic cancer, hepatocellular carcinoma, and breast cancer.</p>

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	In-house recombinant human CCL20
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	ELISA Capture - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by ELISA. For ELISA capture applications, a concentration of 2.0 µg/mL is recommended. To obtain a linear standard curve, serial dilutions of human CCL20 (MIP-3α) recombinant protein ranging from 7.81 pg/mL to 500 pg/mL are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance.
Application Notes	<p>ELISA Capture: The purified L2412F11 antibody is useful as the capture antibody in a sandwich ELISA, when used in conjunction with the biotinylated L2418G3 antibody (Cat. No. 534604) as the detection antibody.</p> <p>Note: For testing human CCL20 (MIP-3a) in cell culture supernatant, serum, plasma (EDTA), and other biological fluids, BioLegend's LEGEND MAX™ Kits (Cat. No. 441407 & 441408) are specially developed and recommended.</p>
RRID	AB_2715819 (BioLegend Cat. No. 534502)

Antigen Details

Structure	Protein of 96 amino acid
Distribution	Expression is induced by lipopolysaccharide (LPS) and inflammatory cytokines such as tumor necrosis factor, IL-1β and interferon-γ, and downregulated by IL-10.
Function	Involved in the regulation of DC trafficking and the recruitment and activation of T cells. CCL20 also has potent antimicrobial activity.
Ligand/Receptor	Ligand for chemokine receptor CCR6.
Biology Area	Cell Biology, Signal Transduction
Molecular Family	Cytokines/Chemokines
Gene ID	6364

Related Protocols

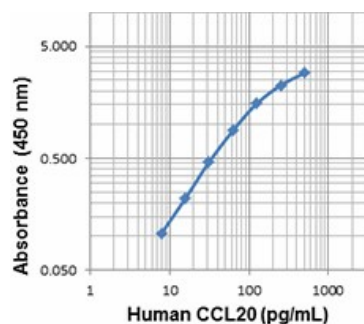
[Active Protocols: Sandwich ELISA - Video](#)

[Sandwich ELISA Protocol](#)

Other Formats

Purified anti-human CCL20 (MIP-3 α)

Product Data



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