BD Pharmingen™

Technical Data Sheet

PE Mouse Anti-Human CCL22

Product Information

Material Number: 565950
Alternate Name: C-C motif chemokine 22; STCP-1; SCYA22; MDC; MDC(1-69); ABCD-1, DC/B-CK
Size: 50 µg
Concentration: 0.2 mg/ml
Clone: T51-719
Immunogen: Human CCL22 Recombinant Protein
Isotype: Mouse IgG1, κ
Reactivity: QC Testing: Human
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The T51-719 monoclonal antibody specifically recognizes C-C motif chemokine 22 (CCL22), which is also known as Macrophage-derived chemokine (MDC), Stimulated T-cell chemotactic protein 1 (STCP-1), or Small-inducible cytokine A22 (SCYA22). CCL22 is produced by macrophages, dendritic cells, B cells, and NK cells. CCL22 binds to and signals through the cell surface receptor, CCR4. It attracts chronically activated T cells, including cutaneous lymphocyte antigen (CLA)-positive T cells, Th2-like cells, and regulatory T cells into inflammatory sites. CCL22 also attracts NK cells, monocytes/macrophages, and dendritic cells.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Intracellular staining (flow cytometry) Routinely Tested

Multicolor flow cytometric analysis of CCL22 expression in GM-CSF-stimulated adherent PBMC.

Adherent peripheral blood mononuclear cells (PBMC) were cultured (3 days at 37°C) with Recombinant Human GM-CSF (Cat. No. 550068), BD GolgiStop™ Protein Transport Inhibitor (containing Monensin) (Cat. No. 554724) was added for the last 3.5 hours of culture. The cells were harvested and stained with FITC Mouse Anti-Human CD206 antibody (Cat. No. 551135) and BD Horizon™ Fixable Viability Stain 660 (FVS660; Cat. No. 564405) in serum-free buffer. After fixation with BD Cytofix™ Fixation Buffer (Cat. No. 554655), the cells were permeabilized with BD Perm/Wash™ Buffer (Cat. No. 554723), and stained with either PE Mouse IgG1, κ Isotype Control (Cat. No. 554680; Left Plot) or PE Mouse Anti-Human CCL22 antibody (Cat. No. 565950; Right Plot). Two-color flow cytometric contour plots showing the correlated expression of CD206 versus CCL22 (or Ig Isotype control staining) were derived from gated events with the forward and side light-scatter characteristics of intact, viable (FVS660-negative) cells. Flow cytometric analysis was performed using a BD LSRFortessa™ Cell Analyzer System.

Multiparameter flow cytometric analysis of CCL22 expression in Raji cells.

Cells from the human Raji (Burkitt’s B cell lymphoma, ATCC CCL-86) cell line were cultured with BD GolgiStop™ Protein Transport Inhibitor (containing Monensin) for 3.5 hours. The cells were harvested and stained with BD Horizon™ Fixable Viability Stain 660 (FVS660) in serum-free buffer. The cells were washed, fixed with BD Cytofix™ Fixation Buffer, and then permeabilized with BD Perm/Wash™ Buffer, and stained with either PE Mouse IgG1, κ Isotype Control (Cat. No. 554680; Left Plot) or PE Mouse Anti-Human CCL22 antibody (Cat. No. 565950, Right Plot). Two-parameter flow cytometric contour plots showing the correlated expression of CCL22 (or Ig Isotype control staining) versus side light-scatter (SSC) signals were derived from gated events with the forward and side light-scatter characteristics of intact, viable (FVS660-negative) Raji cells. Flow cytometric analysis was performed using a BD LSRFortessa™ Cell Analyzer System.

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565950 Rev. 1
Suggested Companion Products

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
5. An isotype control should be used at the same concentration as the antibody of interest.

References


