

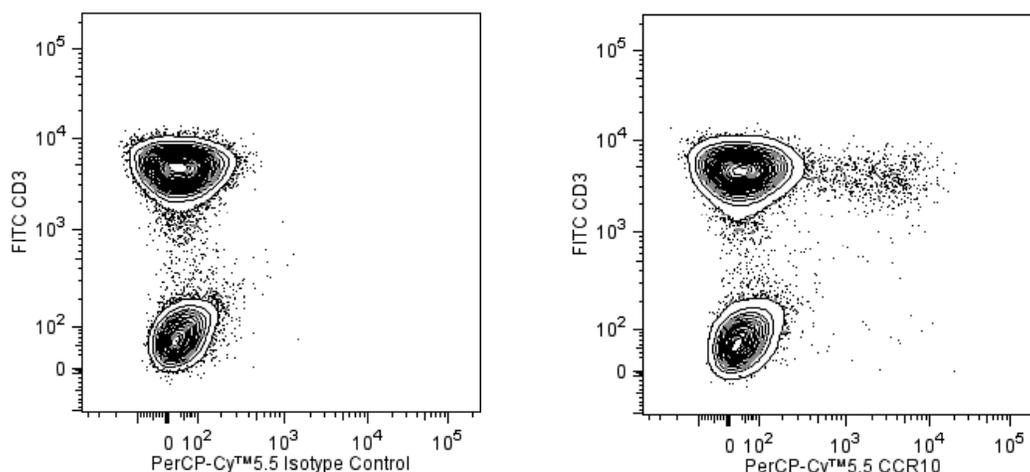
Technical Data Sheet

PerCP-Cy™5.5 Mouse Anti-Human CCR10**Product Information**

Material Number:	564772
Alternate Name:	C-C CKR-10, C-C CKR-10, G-protein coupled receptor 2, CCR-10, GPR2
Size:	25 µg
Concentration:	0.2 mg/ml
Clone:	1B5
Immunogen:	Human CCR10 Transfected Cell Line
Isotype:	Mouse (C57BL/6) IgG2a, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 1B5 monoclonal antibody specifically binds to CCR10 (CC-chemokine receptor 10). CCR10 is a seven transmembrane domain G-protein-coupled receptor that is also known as GPR-2 (G-protein coupled receptor 2). CCR10 is expressed by cells that mediate epithelial immunity including a small subset of T memory cells, IgA-secreting B cells, dermal endothelial cells and fibroblasts. It is also expressed on EBV-immortalized B cells. Chemokines CCL27 and CCL28 are the ligands for CCR10. CCR10 reportedly not only functions in regulating the homing and function of cells that mediate epithelial immunity. It may also regulate the epithelial localization, survival, and proliferation of tumor cells and facilitate their evasion from immune surveillance.



Two-color flow cytometric analysis of human CCR10 expression on human peripheral blood lymphocytes. Whole blood was treated with BD PharmLyse™ Lysing Buffer (Cat. No. 555899) to lyse erythrocytes. After washing, the leucocytes were then stained with FITC Mouse Anti-Human CD3 antibody (Cat No. 555332/561806/561807) and either PerCP-Cy™5.5 Mouse IgG2a, κ Isotype Control (Cat. No. 550927; Left Panel) or PerCP-Cy™5.5 Mouse Anti-Human CCR10 antibody (Cat. No. 564772; Right Panel). Two-color flow cytometric contour plots showing the correlated expression of CCR10 (or Ig Isotype control staining) versus CD3 were derived from gated events with the forward and side light-scatter characteristics of viable lymphocytes. Flow cytometric analysis was performed using a BD LSRFortessa™ Cell Analyzer System.

Preparation and Storage

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

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with PerCP-Cy5.5 under optimum conditions, and unconjugated antibody and free PerCP-Cy5.5 were removed. Storage of PerCP-Cy5.5 conjugates in unoptimized diluent is not recommended and may result in loss of signal intensity.

Application Notes**Application**

Flow cytometry

Routinely Tested

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564772 Rev. 2



Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
550927	PerCP-Cy TM 5.5 Mouse IgG2a, κ Isotype Control	0.1 mg	G155-178
555899	Lysing Buffer	100 mL	(none)
555332	FITC Mouse Anti-Human CD3	100 Tests	UCHT1
561806	FITC Mouse Anti-Human CD3	25 Tests	UCHT1
561807	FITC Mouse Anti-Human CD3	500 Tests	UCHT1
554656	Stain Buffer (FBS)	500 mL	(none)
554657	Stain Buffer (BSA)	500 mL	(none)
349202	BD FACSTM Lysing Solution	100 mL	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
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. Please observe the following precautions: Absorption of visible light can significantly alter the energy transfer occurring in any tandem fluorochrome conjugate; therefore, we recommend that special precautions be taken (such as wrapping vials, tubes, or racks in aluminum foil) to prevent exposure of conjugated reagents, including cells stained with those reagents, to room illumination.
5. PerCP-Cy5.5-labelled antibodies can be used with FITC- and R-PE-labelled reagents in single-laser flow cytometers with no significant spectral overlap of PerCP-Cy5.5, FITC, and R-PE fluorescence.
6. PerCP-Cy5.5 is optimized for use with a single argon ion laser emitting 488-nm light. Because of the broad absorption spectrum of the tandem fluorochrome, extra care must be taken when using dual-laser cytometers, which may directly excite both PerCP and Cy5.5TM. We recommend the use of cross-beam compensation during data acquisition or software compensation during data analysis.
7. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
8. Cy is a trademark of GE Healthcare.
9. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.

References

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