Technical Data Sheet

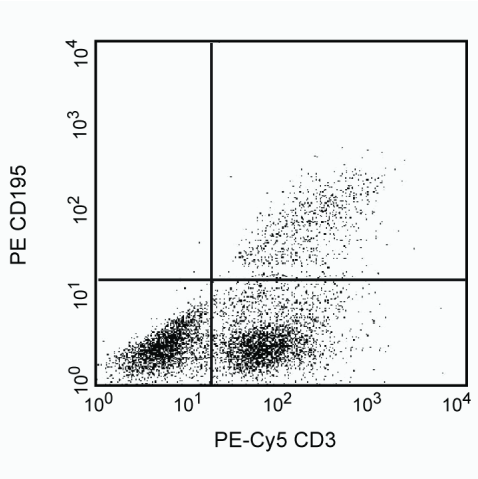
PE Rat Anti-Mouse CD195

Product Information

Material Number:	**559923**
Alternate Name:	CCR5
Size:	0.2 mg
Concentration:	0.2 mg/ml
Clone:	C34-3448
Immunogen:	Mouse CCR5 aa. 9-30
Isotype:	Rat IgG2c, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The C34-3448 antibody reacts with mouse chemokine receptor CD195 (also known as CCR5), a member of the β- chemokine receptor family. CD195 regulates lymphocyte chemotaxis activation and transendothelial migration during inflammation. It signals a response to at least three chemokines: RANTES and macrophage inflammatory protein-1 (MIP-1)α and β. In the mouse system, the gene for CD195 has been mapped to chromosome 9. CD195 mRNA is expressed in heart, spleen and liver tissues, and by macrophages and T-lymphocytes. The immunogen used to generate the C34- 3448 hybridoma was a KLH-conjugated peptide consisting of amino acids 9-30 of mouse CD195 (CCR5).



Expression of mouse CD195 by stimulated mouse splenocytes. *BALB/c splenocytes were stimulated for 24 hours with ConA (10 µg/ml, final concentration; Sigma). The splenocytes were cultured for additional 48 hours in the presence of mouse IL-2 (100 U/ml, final concentration; Cat. No. 550069). The splenocytes were then stained with PE-conjugated rat anti- mouse CD195 antibody (C34-3448,) and PE-Cy5 conjugated hamster antimouse CD3 (145-2C11, Cat. No. 553065) following BD Pharmingen's staining protocol. The data reflects gating on lymphocytes, based on forward and side scattered light signals. The level of nonspecific staining was assessed using the PE-conjugated rat IgG2c isotype control (PE-A23-1; Cat. No. 559841, data not shown.). The quadrant markers for the bivariate dot plots were set based on the isotype controls.*

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.
Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested

Recommended Assay Procedure:

Immunofluorescent Staining and Flow Cytometry Analysis: The PE-conjugated C34-3448 antibody can be used for multicolor immunofluorescent staining and flow cytometric analysis to identify and enumerate CD195-expressing cells within mixed cell populations. For optimal immunofluorescent staining with flow cytometric analysis, the antibody should be titrated (≤ 0.25 µg mAb/million cells). For specific methodology, please visit the onnline protocols section or chapter on intracellular staining in the Immune Function Handbook, both of which are posted on our web site, www.bdbiosciences.com.

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Suggested Companion Products

Catalog Number	Name	Size	Clone
553065	PE-Cy™5 Hamster Anti-Mouse CD3e	0.1 mg	145-2C11
559841	PE Rat IgG2c, κ Isotype Control	0.1 mg	A23-1
550069	Recombinant mouse IL-2	20 µg	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
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.

References

Boring L, Gosling J, Monteclaro FS, Lusis AJ, Tsou CL, Charo IF. Molecular cloning and functional expression of murine JE (monocyte chemoattractant protein 1) and murine macrophage inflammatory protein 1alpha receptors: evidence for two closely linked C-C chemokine receptors on chromosome 9. *J Biol Chem.* 1996; 271(13):7551-7558.(Biology)

Meyer A, Coyle AJ, Proudfoot AE, Wells TN, Power CA. Cloning and characterization of a novel murine macrophage inflammatory protein-1 alpha receptor. *J Biol Chem.* 1996; 271(24):14445-14451.(Biology)

Napolitano M, Seamon KB, Leonard WJ. Identification of cell surface receptors for the Act-2 cytokine. *J Exp Med.* 1990; 172(1):285-289.(Biology)