Technical Data Sheet

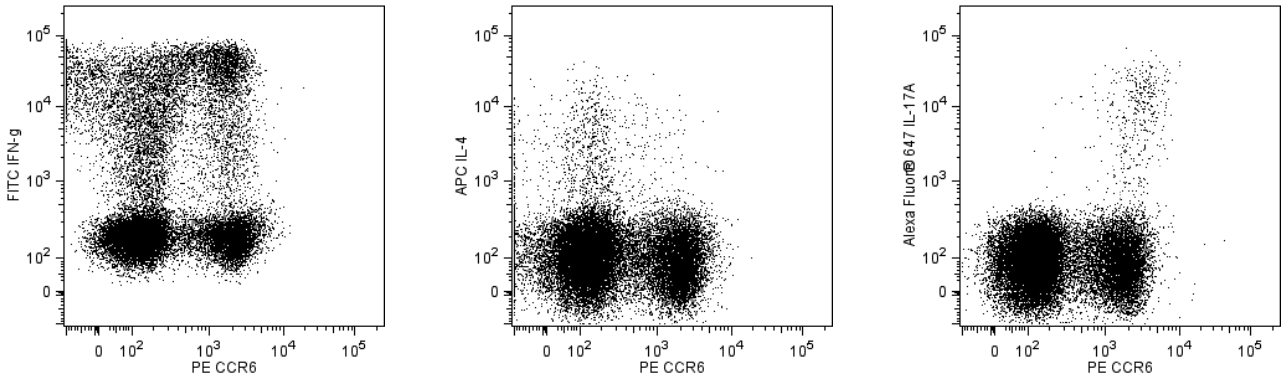
PE Mouse Anti-Human CD196 (CCR6)

Product Information

Material Number:	**559562**
Alternate Name:	CCR6
Size:	0.2 mg
Concentration:	0.2 mg/ml
Clone:	11A9
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The monoclonal antibody 11A9 reacts with the human CC chemokine receptor, CCR6. CCR6 (previously known as BN-1, CKR-L3, DRY6, GPR-CY4 and STRL22), a seven-transmembrane, G-protein-coupled receptor, is the specific receptor for CC chemokine MIP-3a/LARC/ Exodus. It has been shown that CCR6 mRNA is expressed mainly in lymphoid tissues including spleen, lymph nodes, thymus, appendix. CCR6 mRNA was also detected in peripheral T- and B-lymphocytes and in CD34-derived dendritic cells. The human CCR6 gene, unlike other CCR genes, has been mapped to chromosome 6q27. The immunogen used to generate 11A9 hybridoma was KLH-conjugated N-terminus peptides of human CCR6. It does not cross-react with human CCR1, CCR2, CCR3, CCR4, CCR5, CCR7, CCR8, CCR9, CXCR1, CXCR2, CXCR3, CXCR4 and CXCR5 transfectants. This antibody is NOT a neutralizing antibody. CCR6 had been clustered as CD196 in the VIIIth HLDA workshop.



Flow cytometric analysis of PE anti-human CCR6 on stimulated PBMC. *Human PBMC were stimulated with PMA/Ionomycin in the presence of BD GolgiStop™ (Cat. No. 554724) for 5 hours. After stimulation, cells were surface stained with PE anti-human CCR6 then fixed and permeabilized using BD Cytofix/Cytoperm™ reagents (Cat. No. 554714) followed by intracellular staining with FITC anti-human IFN-γ (Cat. No. 554700) or APC anti-human IL-4 (Cat. No.554486) or Alexa Fluor® 647 anti-human IL-17A. The dot plots were derived from a lymphocytes gate. Flow cytometry was performed on a BD FACSCalibur™ System.*

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:

The PE-conjugated 11A9 antibody (Cat. No. 559562) can be used for the immunofluorescent staining and flow cytometric analyses of human leukocytes (see image) and cell lines that express CCR6. Please titrate between 0.1 and 1.0 µg/test.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554680	PE Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21

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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

Baba M, Imai T, Nishimura M, et al. Identification of CCR6, the specific receptor for a novel lymphocyte-directed CC chemokine LARC. *J Biol Chem.* 1997; 272(23):14893-14898. (Biology)

Greaves DR, Wang W, Dairaghi DJ, et al. CCR6, a CC chemokine receptor that interacts with macrophage inflammatory protein 3alpha and is highly expressed in human dendritic cells. *J Exp Med.* 1997; 186(6):837-844. (Biology)

Liao F, Alderson R, Su J, Ullrich SJ, Kreider BL, Farber JM. STRL22 is a receptor for the CC chemokine MIP-3alpha. *Biochem Biophys Res Commun.* 1997; 236(1):212-217. (Biology)

Liao F, Lee HH, Farber JM. Cloning of STRL22, a new human gene encoding a G-protein-coupled receptor related to chemokine receptors and located on chromosome 6q27. *Genomics.* 1997; 40(1):175-180. (Biology)

Liao F, Rabin RL, Smith CS, Sharma G, Nutman TB, Farber JM. CC-chemokine receptor 6 is expressed on diverse memory subsets of T cells and determines responsiveness to macrophage inflammatory protein 3 alpha. *J Immunol.* 1999; 162(1):186-194. (Biology)

Power CA, Church DJ, Meyer A, et al. Cloning and characterization of a specific receptor for the novel CC chemokine MIP-3alpha from lung dendritic cells. *J Exp Med.* 1997; 186(6):825-835. (Biology)

Zaballos A, Varona R, Gutierrez J, Lind P, Marquez G. Molecular cloning and RNA expression of two new human chemokine receptor-like genes. *Biochem Biophys Res Commun.* 1996; 227(3):846-853. (Biology)