Technical Data Sheet

Biotin Mouse Anti-Human CD196 (CCR6)

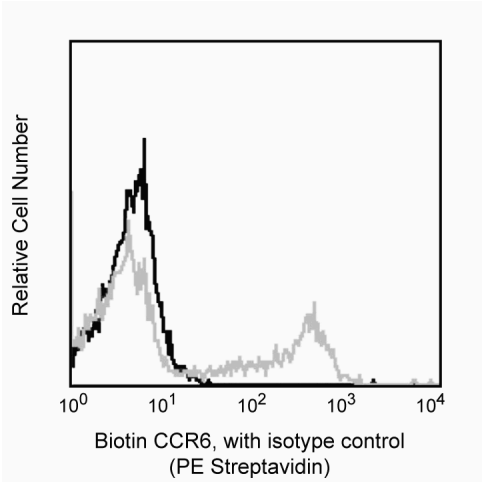
Product Information

Material Number:	**559561**
Alternate Name:	CCR6
Size:	0.5 mg
Concentration:	0.5 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.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Expression of human CCR6 on peripheral lymphocytes detected by biotinylated 11A9.

Preparation and Storage

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

Application Notes

Application

Flow cytometry	Routinely Tested

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Recommended Assay Procedure:

The biotinylated 11A9 antibody (Cat. No. 559561) can be used for the immunofluorescent staining and flow cytometric analyses of human leukocytes (see image) and cell lines that express CCR6. A titration range of 0.1-1.0 µg/test is recommended for biotinylated 11A9. The data in the figure represents staining of human peripheral lymphocytes with 0.25 µg biotinylated 11A9 and ≤ 0.06 µg/test of streptavidin-phycoerythrin (Cat. No. 554061).

Suggested Companion Products

Catalog Number	Name	Size	Clone
554061	Streptavidin PE	0.5 mg	(none)
555747	Biotin Mouse IgG1 κ Isotype Control	100 tests	MOPC-21

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

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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)

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