Technical Data Sheet

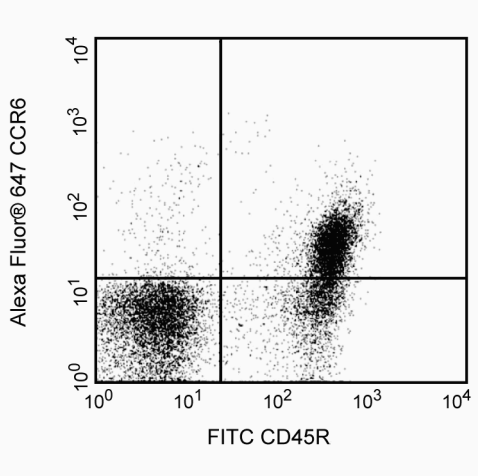
Alexa Fluor® 647 Rat Anti-Mouse CD196

Product Information

Material Number:	**561753**
Alternate Name:	CCR6, BN-1, CKR-L3, DRY6, KY411, GPR-CY4, STRL22
Size:	25 µg
Concentration:	0.2 mg/ml
Clone:	140706
Immunogen:	Mouse CCR6-transfected Rat Cell Line
Isotype:	Rat IgG2a
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 140706 monoclonal antibody reacts with mouse CD196 (CCR6), a CC chemokine receptor that is expressed on B lymphocytes and subsets of T and dendritic cells. The known ligand for CCR6 is CCL20/MIP-3α, and together they regulate the migration and recruitment of antigen-presenting and immunocompetent cells during inflammatory and immunological responses.



Flow cytometric analysis of CD196 on mouse splenocytes. *BALB/c splenocytes were stained with Alexa Fluor® 647 Rat Anti-Mouse CD196 and FITC Rat Anti-Mouse CD45R/B220 (Cat. No. 553087 or 553088). For data analysis, lymphocytes were selected by their scatter profile, and the positions of the quadrant markers were determined by staining with Alexa Fluor® 647 Rat IgG2a, κ Isotype Control (Cat. No. 557690) and FITC Rat IgG2a, κ Isotype Control (Cat. No. 553929). Flow cytometry was performed on a BD FACSCalibur™ flow cytometry 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 to Alexa Fluor® 647 under optimum conditions, and unreacted Alexa Fluor® 647 was removed.

Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
557690	Alexa Fluor® 647 Rat IgG2a, κ Isotype Control	0.1 mg	R35-95
553087	FITC Rat Anti-Mouse CD45R/B220	0.1 mg	RA3-6B2
554656	Stain Buffer (FBS)	500 ml	(none)

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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. Alexa Fluor® 647 fluorochrome emission is collected at the same instrument settings as for allophycocyanin (APC).
5. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
6. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.
7. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
8. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Hirota K, Yoshitomi H, Hashimoto M, et al. Preferential recruitment of CCR6-expressing Th17 cells to inflamed joints via CCL20 in rheumatoid arthritis and its animal model. *J Exp Med.* 2007; 204(12):2803-2812. (Clone-specific: Flow cytometry)

Kucharzik T, Hudson JT 3rd, Waikel RL, Martin WD, Williams IR. CCR6 expression distinguishes mouse myeloid and lymphoid dendritic cell subsets: demonstration using a CCR6 EGFP knock-in mouse. *Eur J Immunol.* 2002; 32(1):104-112. (Biology)

Varona R, Villares R, Carramolino L, et al. CCR6-deficient mice have impaired leukocyte homeostasis and altered contact hypersensitivity and delayed-type hypersensitivity responses. *J Clin Invest.* 2001; 107(6):R37-R45. (Biology)

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