

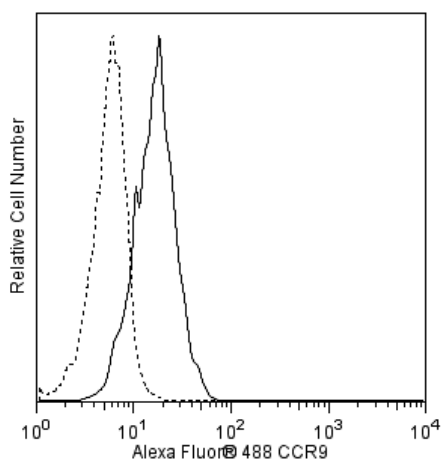
## Technical Data Sheet

**Alexa Fluor® 488 Mouse Anti-Human CCR9****Product Information**

<b>Material Number:</b>	<b>561608</b>
<b>Alternate Name:</b>	CDw199; Chemokine (C-C motif) receptor 9; GPR-9-6; GPR28
<b>Size:</b>	50 µg
<b>Concentration:</b>	0.2 mg/ml
<b>Clone:</b>	112509
<b>Immunogen:</b>	Human CCR9 Transfected Cell Line
<b>Isotype:</b>	Mouse IgG2a
<b>Reactivity:</b>	QC Testing: Human
<b>Storage Buffer:</b>	Aqueous buffered solution containing ≤0.09% sodium azide.

**Description**

The 112509 monoclonal antibody specifically binds to the human CCR9 chemokine receptor. CCR9 is a thymus specific CC chemokine receptor expressed at high levels by essentially all CD4+ and CD8+ T lymphocytes. CCR9 and its ligand CCL25/TECK are involved in lymphocyte recruitment in the small intestine. The immunogen used to generate the 112509 hybridoma was human CCR9-transfected cells.



**Flow cytometric analysis of CCR9 expressed on MOLT-4 cells.** Human MOLT-4 cells were stained with either Alexa Fluor® 488 Mouse Anti-Human CCR9 antibody (Cat. No. 561608, solid line histogram) or an Alexa Fluor® 488 mIgG2a, κ Isotype Control (Cat. No. 557703; dashed line histogram). Flow cytometric fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of viable cells. Flow cytometry was performed using a BD LSR™ II Flow Cytometer 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® 488 under optimum conditions, and unreacted Alexa Fluor® 488 was removed.

**Application Notes****Application**

Flow cytometry	Routinely Tested
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**Suggested Companion Products**

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
557703	Alexa Fluor® 488 Mouse IgG2a, κ Isotype Control	100 tests	G155-178
554656	Stain Buffer (FBS)	500 ml	(none)

**Product Notices**

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- An isotype control should be used at the same concentration as the antibody of interest.
- Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.
- 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.

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5. Alexa Fluor® 488 fluorochrome emission is collected at the same instrument settings as for fluorescein isothiocyanate (FITC).
6. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.
7. 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.
8. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at [www.bdbiosciences.com/colors](http://www.bdbiosciences.com/colors).

## References

- Kunkel EJ, Campbell JJ, Haraldsen G, et al. Lymphocyte CC chemokine receptor 9 and epithelial thymus-expressed chemokine (TECK) expression distinguish the small intestinal immune compartment: Epithelial expression of tissue-specific chemokines as an organizing principle in regional immunity. *J Exp Med.* 2000; 192(5):761-768. (Biology)
- Zaballos A, Gutierrez J, Varona R, Ardavin C, Marquez G. Cutting edge: identification of the orphan chemokine receptor GPR-9-6 as CCR9, the receptor for the chemokine TECK. *J Immunol.* 1999; 162(10):5671-5675. (Biology)