## Alexa Fluor® 647 anti-human CD197 (CCR7)

Catalog # / Size: 2366085 / 25 tests

2366090 / 100 tests

Clone: G043H7

**Isotype:** Mouse IgG2a, κ

Immunogen: CCR7-transfected cells

Reactivity: Human

**Preparation:** The antibody was purified by affinity

chromatography, and conjugated with Alexa Fluor® 647 under optimal

conditions.

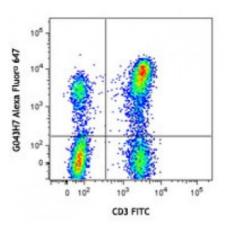
conditions

**Formulation:** Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD3 FITC and CD197 (clone G043H7) Alexa Fluor® 647 (top) or mouse lgG2a, κ Alexa Fluor® 647 isotype control (bottom).

## **Applications:**

**Applications:** Flow Cytometry

Recommended

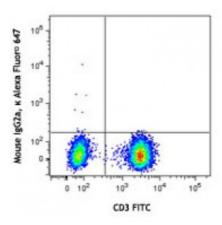
**Usage:** 

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for

each application.

\* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at

633 nm / 635 nm.



**Description:** CCR7, also known as CD197, is a chemokine receptor that binds CCL19 and

CCL21. CCR7 and its ligands link innate and adaptive immunity by affecting interactions between T cells and dendritic cells and their downstream effect. Naïve T cells enter the lymph node through high endothelial venules, which express CCL21. Dendritic cells and macrophages enter the lymph node through afferent lymphatics. The encounter of T cells and dendritic cells in the T cell zone is CCR7-dependent. In addition, during immunological surveillance, B cells recirculate between B-cell-rich compartments (follicles or B cell zones) in secondary lymphoid organs, surveying for antigen. After antigen binding, B cells move to the boundary of B and T zones to interact with T-helper cells; this B cell migration is directed by CCR7 and its ligands. CCR7-positive cancer cell

expression has been associated with lymph node metastasis.

Antigen References:

Yanagihara S, et al. 1998. J. Immunol. 161:3096.
 Charo IF, et al. 2006. N. Engl. J. Med. 354:610.

	<ol> <li>Reif K, et al. 2002. Nature 416:94.</li> <li>Nakata B, et al. 2008. O</li> </ol>
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