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Product Data Sheet

Alexa Fluor® 488 anti-human CD197 (CCR7)

Catalog # / Size: 353205 / 25 tests
353206 / 100 tests

Clone: G043H7

Isotype: Mouse IgG2a, κ

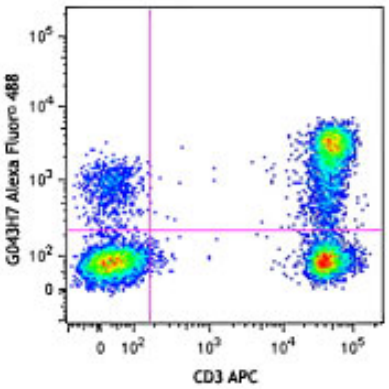
Immunogen: CCR7-transfected cells

Reactivity: Human, **Cross-Reactivity:** Rhesus, Cynomolgus

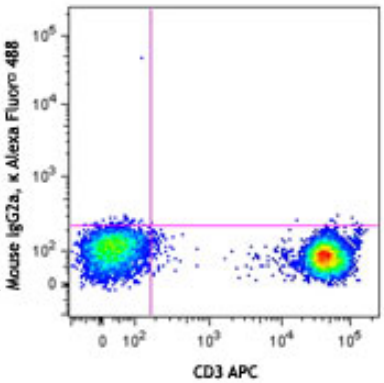
Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 488.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes were stained with CD3 APC and CCR7/CD197 (clone G043H7) Alexa Fluor® 488 (top) or mouse IgG2a, κ Alexa Fluor® 488 isotype control (bottom).



Applications:

Applications: FC - *Quality tested*

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

* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.
** Alexa Fluor® 488 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 488 dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Description: CCR7, also known as CD197, is a chemokine receptor that binds CCL19 and CCL21. CCR7 and its ligands link innate and adaptive immunity through their effects on interactions between T cells and dendritic cells. 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 lymphocytes recirculate between B-cell-rich compartments (follicles or B 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:
1. Yanagihara S, *et al.* 1998. *J. Immunol.* 161:3096.
2. Charo IF, *et al.* 2006. *N. Engl. J. Med.* 354:610.
3. Reif K, *et al.* 2002. *Nature* 416:94.
4. Nakata B, *et al.* 2008. *Oncology* 74:69.

Related Products:

Product	Clone	Application
Alexa Fluor® 488 Mouse IgG2a, κ Isotype Ctrl	MOPC-173	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC

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