

APC/Fire™ 750 anti-human CD197 (CCR7)

Catalog # / Size: 2366230 / 100 tests
2366225 / 25 tests

Clone: G043H7

Isotype: Mouse IgG2a, κ

Immunogen: CCR7-transfected cells

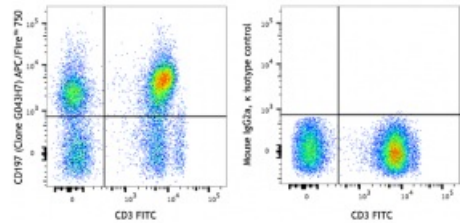
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.

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

Workshop Number: HCDM listed

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD3 FITC and CD197 (Clone G043H7) APC/Fire™ 750 (left) or mouse IgG2a, κ APC/Fire™ 750 isotype control (right).

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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

Application Notes: Additional reported applications (for the relevant formats) include: Western blotting¹, immunofluorescence², and immunoprecipitation¹.

Application References: 1. Hildreth JE, *et al.* 1991. *Blood* 77:121. (IP, WB)
2. Beatty WL, *et al.* 2006. *J. Cell Sci.* 119:350. (IF)

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:**
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.
 5. Brodie T. et al. 2013. *Cytometry A.* 6: 530-2. [PubMed](#)
 6. Graves A.J. et al. 2014. *Cytometry A.* 7: 576-9 [PubMed](#)
 7. Moncunill G. et al. 2014. *Cytometry A.* 12: 995-8 [PubMed](#)