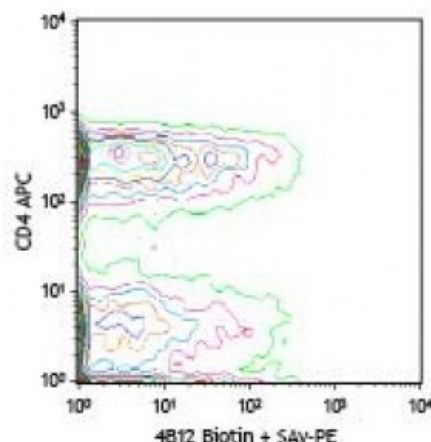


**Purified anti-mouse CD197 (CCR7)**

**Catalog # / Size:** 1200505 / 50 µg  
**Clone:** 4B12  
**Isotype:** Rat IgG2a, κ  
**Immunogen:** Mouse CCR7 transfected RBL-2H3 cells  
**Reactivity:** Mouse  
**Preparation:** The antibody was purified by affinity chromatography.  
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.  
**Concentration:** 0.5



**Applications:**

**Applications:** Other

**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  $\leq 2.0$  microg per  $10^6$  cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** The 4B12 antibody does not inhibit binding of ligand to receptor. Additional reported applications (for the relevant formats) include: immunoprecipitation. To reduce non-specific binding to cells bearing Fc-receptors, pre-incubation of cells with anti-mouse CD16/CD32, clone 93 (Cat. No. 101301/101302) is recommended prior to immunofluorescent staining.

**Staining with clone 4B12 is recommended at 37°C** ([see supplemental data of PE staining at differing temperatures](#)).

- Application References:**
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  6. Thompson BD. 2007. *J. Biol. Chem.* 282:9547. (FC)
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  9. Hwang IY, *et al.* 2007. *J. Immunol.* 179:439. (FC) [PubMed](#)
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  12. Allende ML, *et al.* 2008. *FASEB J.* 22:307. [PubMed](#)
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  15. Florido M, *et al.* 2009. *Immunobiology.* 214:643. [PubMed](#)
  16. Bankoti J, *et al.* 2010. *Toxicol. Sci.* 115:422. (FC) [PubMed](#)
  17. del Rio ML, *et al.* 2011. *Transpl. Int.* 24:501. (FC) [PubMed](#)

**Description:** CD197 is also known as C-C chemokine receptor 7 (CCR7) or EBI-1. CCR7 is a G-coupled rhodopsin-like member of the GPCR superfamily with a predicted molecular weight of 43 kD that is expressed on hematopoietic stem cells, most

naive T cells, some memory T cells, B subset, and mature dendritic cells. CCR7 is a receptor for the chemokines CCL19 (MIP3  $\beta$ ) and SLC (6CKine, Exodus-2, TCA-4, CCL21) that plays a role in thymocytes development, T cell adhesion at intestinal sites, the homeostatic recirculation of memory T cells, and chemotaxis.

**Antigen**  
**References:**

1. Schweickart VL, *et al.* 1994. *Genomics* 23:643.
2. Yoshida R, *et al.* 1998. *J. Biol. Chem.* 273:7118.
3. Campbell JJ, *et al.* 1998. *J. Cell Biol.* 141:1053.
4. Willimann K, *et al.*