

**APC/Fire™ 750 anti-human CD194 (CCR4)**

**Catalog # / Size:** 2397145 / 25 tests  
2397150 / 100 tests

**Clone:** L291H4

**Isotype:** Mouse IgG1, κ

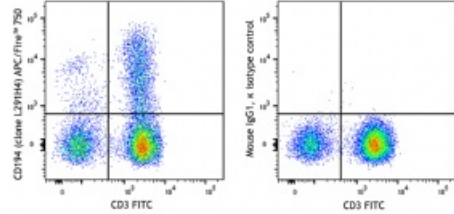
**Immunogen:** Human CCR4 transfected cells

**Reactivity:** Human, Non-human primate

**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)

**Concentration:** Lot-specific



Human peripheral blood lymphocytes were stained with CD3 FITC and anti-human CD194 (CCR4) (clone L291H4) APC/Fire 750 (left) or mouse IgG1, 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. It is recommended that the reagent be titrated for optimal performance for each application.

**Description:** CD194, also known as CCR4, is a CC chemokine receptor. It binds CCL17 and CCL22 and is expressed on a subset of T and B cells, basophils, monocytes, and NK cells. Human Th2 cells are characterized by the expression of CCR4 and CCR8, and these receptors are regulated differently during Th2 development. Human peripheral blood Tregs can be divided into two distinct populations based on the expression of CCR4. Freshly isolated Tregs express CCR4 and presumably represent memory-type Tregs, and CCR4<sup>-</sup> Tregs require CD3-mediated activation to acquire a regulatory activity. Depletion of CCR4<sup>+</sup> T cells leads to Th1-type polarization of CD4<sup>+</sup> T cells and augmentation of CD8<sup>+</sup> T cell responses to tumor antigens. CCR4 and its ligands are important for the recruitment of memory T cells into the skin in various cutaneous immune diseases.

- Antigen References:**
1. Katschke KJ, *et al.* 2001 *Arthritis Rheum.* 44:1022.
  2. Colantonio L, *et al.* 2002 *Eur. J. Immunol.* 32:1264.
  3. Jakubzick C *et al.* 2004 *Am. J. Pathol.* 165:1211.
  4. Morimoto Y, *et al.* 2005 *J. Leukoc. Biol.* 78:753.
  5. Baatar J, *et al.* 2007 *J. Immunol.* 178:4891.
  6. Kusumoto M, *et al.* 2007 *J. Interferon. Cytokine Res.* 27:901.