SONY

# Product Data Sheet

## Purified anti-human CD194 (CCR4)

**Catalog # / Size:** 2397010 / 100 µg

**Clone:** L291H4

**Isotype:** Mouse IgG1, κ

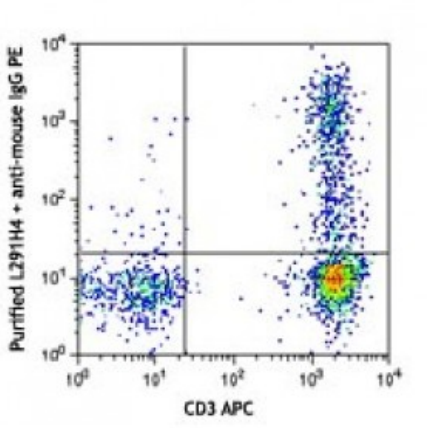
**Immunogen:** Human CCR4 transfected cells

**Reactivity:** Human

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

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5

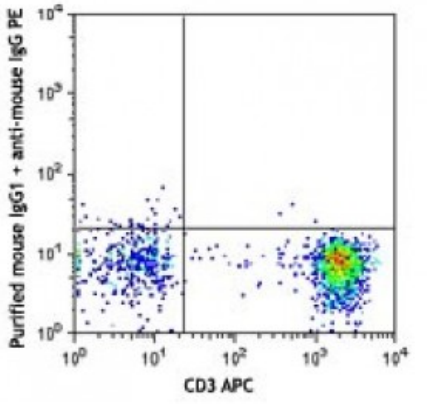



Human peripheral blood lymphocytes were stained with purified CD194 (clone L291H4) (top) or purified mouse IgG1, κ isotype control (bottom), followed by anti-mouse IgG PE and then with CD3 APC.

## 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 ≤0.5 microg per million cells in 100 microL volume. 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 $CCR4^-$ Tregs require CD3-mediated activation to acquire a regulatory activity. Depletion of $CCR4^+$ T cells leads to Th1-type polarization of $CD4^+$ T cells and augmentation of $CD8^+$ 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, *e*