SONY

Product Data Sheet

PE/Dazzle™ 594 anti-human CD194 (CCR4)

Catalog # / Size: 2397100 / 100 tests
2397095 / 25 tests

Clone: L291H4

Isotype: Mouse IgG1, κ

Immunogen: Human CCR4 transfected cells

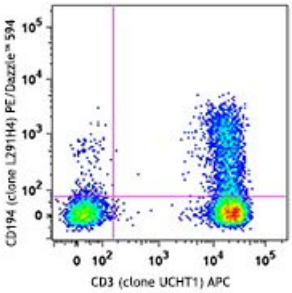
Reactivity: Human, Non-human primate

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions.

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

Workshop Number: V A067

Concentration: Lot-specific



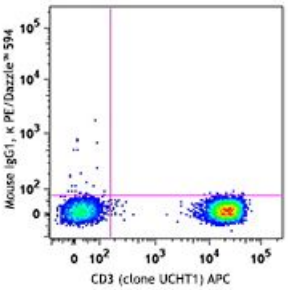
Human peripheral blood lymphocytes were stained with CD3 APC and CD194 (clone L291H4) PE/Dazzle™ 594 (top) or mouse IgG1, κPE/Dazzle™ 594 istotype control (bottom).

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 or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.



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.

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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.

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