

Anti-Human CD194/CCR4-149Sm

Catalog: 3149029A

Clone: L291H4

Package size: 50 tests

Isotype: Mouse IgG1

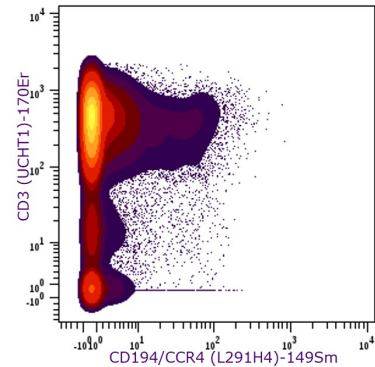
Storage: Store at 4 °C. Do not freeze.

Formulation: Antibody stabilizer with 0.05% sodium azide

Technical Information

Validation: Each lot of conjugated antibody is quality control-tested by CyTOF[®] analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended usage: The suggested use is 1 μ L for up to 3×10^6 live cells in 100 μ L. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human PBMCs stained with 170Er-anti-CD3 (UCHT1) and 149Sm-anti-CD194/CCR4 (L291H4). CD45+CD33- cells are displayed in the analysis.

Description

CD194, also known as CC chemokine receptor 4 (CCR4), belongs to the G protein-coupled receptor family. It is expressed on stimulated and unstimulated T and B cells, basophils, monocytes, and NK cells. Human peripheral blood regulatory T cells (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 anti-CD3 antibody-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.

References

Bandura, D.R. et al. "Mass cytometry: technique for real time single cell multitarget immunoassay based on inductively coupled plasma time-of-flight mass spectrometry." *Analytical Chemistry* 81 (2009): 6,813–22.

Ornatsky, O.I. et al. "Highly multiparametric analysis by mass cytometry." *Journal of Immunological Methods* 361 (2010): 1–20.

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