

Anti-Human CD194-149Sm

Catalog: 3149003A

Clone: 205410

Package Size: 50 tests

Isotype: IgG2b

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

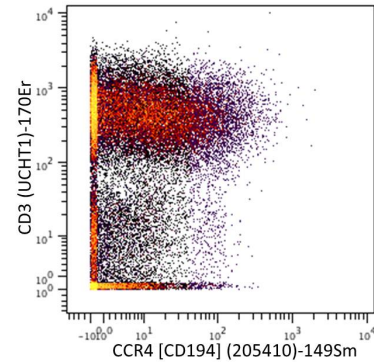
Formulation: Antibody stabilizer with 0.05% Sodium Azide

Reactivity: Human,

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 µl for up to 3 X 10⁶ live cells in 100 µl. 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-CCR4/CD194 (205410). Lymphocytes are displayed in the analysis.

Description

CD194 also known as CCR4 (CC-chemokine receptor type 4) 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 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 Ab-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 Ags.

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* 81:6813-6822, 2009.

Ornatsky, O. I., et al. **Highly Multiparametric Analysis by Mass Cytometry.** *J Immunol Methods* 361 (1-2):1-20, 2010.

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