

## Anti-Human CD199-168Er

**Catalog #:** 3168011A

**Package Size:** 50 tests

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

**Cross Reactivity:** Human

**Clone:** L053E8

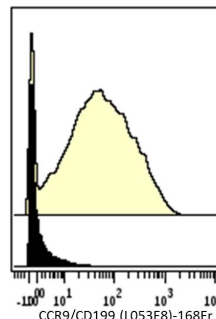
**Isotype:** Mouse IgG2a

**Formulation:** Antibody stabilizer with 0.05% Sodium Azide

### Technical Information

**Validation:** Each lot of conjugated antibody is quality control tested by CyTOF<sup>®</sup> 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 10<sup>6</sup> live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human T-lymphoblasts MOLT-4 cells (Top) and human Jurkat T cells (bottom) were stained with 168Er-anti- CCR9/CD199 (L053E8).

### Description

Human CD199, also known as CCR9, is a member of the G protein coupled receptor (GPCR) family and is involved in T cell development in the thymus and in the gut-associated immune response. It is highly expressed on different stages of thymocytes and upregulated on CD4+CD8+ double-positive cells. CCR9 deficiency in mice, results in mild impairment in thymocyte development. The interaction of CCR9 with its ligand CCL25 (TECK, thymus-expressed chemokine) may direct the trafficking of developing T cells in the thymus. Recently, due to its role in gut-trafficking of B and T cells, CCR9 has been identified as a potential therapeutic target in Crohn's disease.

### 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.

### Contact Information:

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