

## Anti-Human CD4-145Nd

**Catalog #:** 3145001B

**Package Size:** 100 tests

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

**Cross Reactivity:** Chimpanzee

**Clone:** RPA-T4

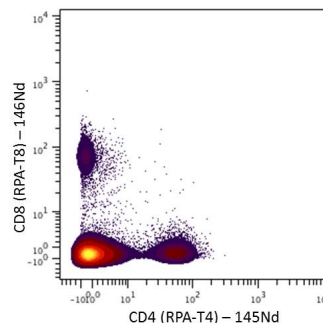
**Isotype:** Mouse IgG1

**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 PBMCs stained with 145Nd anti-CD4 (RPA-T4) and 146Nd anti-CD8 (RPA-T8). Total viable cells are displayed in the analysis.

### Description

CD4, also known as T4, is a transmembrane glycoprotein expressed on the 'helper' subset of T cells (thymocytes), immature T cells in the thymus, as well as on some monocytes/macrophages. CD4 helps recognizes antigens associated with MHC class II molecules via initiation of signal transduction and controlling cell-cell interaction.

### 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.

Bendall, S.C, et al. Single-Cell Mass Cytometry of Differential Immune and Drug Responses Across a Human Hematopoietic Continuum. *Science* 6 May 2011: 687-696.

Bodenmiller, B. et al. State Based Profiling of Small Molecule Regulators by Cell-Multiplexed Mass Cytometry. *Nature Biotechnology* 30: 858.

Ornatsky, O. I., et al. Highly multiparametric analysis by mass cytometry. *J Immunol Methods* 361 (1-2):1-20, 2010.

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