

# Anti-Human CD4-176Yb

Catalog: 3176010B

Package Size: 100 tests

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

Reactivity: Chimpanzee,

Clone: RPA-T4

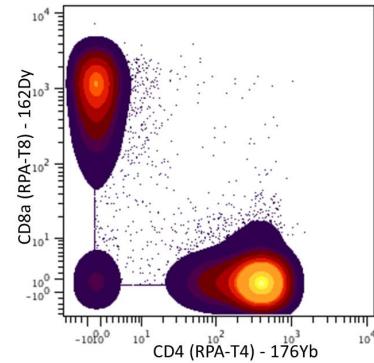
Isotype: Mouse IgG1

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 162Dy-anti-CD8a (RPA-T8) and 176Yb-anti-CD4 (RPA-T4). CD3+ T 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 recognize 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.

### For technical support visit [fluidigm.com/support](http://fluidigm.com/support)

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