

## Anti-Mouse CD4-172Yb

**Catalog #:** 3172003B

**Package Size:** 100 tests

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

**Cross Reactivity:** Mouse

**Clone:** RM4-5

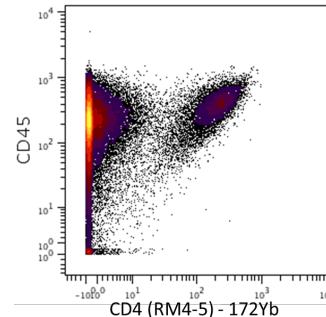
**Isotype:** Rat IgG2a

**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.



C57BL/6 mouse splenocytes stained with 147Sm-anti-CD45 (30-F11) and 172Yb-anti-CD4 (RM4-5).

### 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 weakly on monocytes and dendritic cells. 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.

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

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