

# Anti-Human FoxP3-159Tb

Catalog: 3159028A

Package Size: 50 tests

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

Reactivity: Cynomolgus Monkey, Rhesus, Olive Baboon,

Clone: 259D/C7

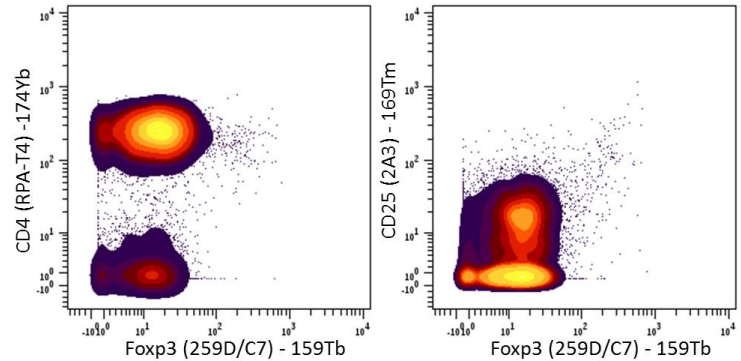
Isotype: IgG1

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 159Tb-anti-Foxp3 (259D/C7) and either 176Yb-anti-CD4 (RPA-T4) (left) or 169Tm-anti-CD25 (2A3) (right). Viable T cells are displayed in the analysis.

## Description

Foxp3, a member of the FOX protein family of transcriptional regulators, is a master regulator of the regulatory T (Treg) CD4+ T cell subset. CD4+CD25+Foxp3+ Tregs play a suppressive role within the immune system and loss-of-function mutations of Foxp3 in the scurfy mouse leads to devastating widespread lesions. Foxp3 contributes to maintaining the suppressive phenotype of Tregs by acting as both a transcriptional activator and repressor including increasing expression of CD25 and CTLA-4 and reducing expression of IL-7Ra and IL-17. Some of these effects are due to its binding to the pro-inflammatory Th17 master-regulator RORg(t).

## 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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