**Anti-Human FoxP3-159Tb**

Catalog: 3159028A  
Clone: 259D/C7  
Package Size: 50 tests  
Isotype: IgG1  
Storage: Store product at 4°C. Do not freeze.  
Formulation: Antibody stabilizer with 0.05% Sodium Azide

### Technical Information

**Validation:** Each lot of conjugated antibody is quality control tested by CyTOF® 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 10^6 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.](image)

### 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-7Rα and IL-17. Some of these effects are due to its binding to the pro-inflammatory Th17 master-regulator RORg(t).

### References
