

## Anti-Mouse Foxp3-158Gd

**Catalog #:** 3158003A

**Package Size:** 50 tests

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

**Cross Reactivity:** Rat, Mouse, Bovine, Canine, Porcine, Feline

**Clone:** FJK-16s

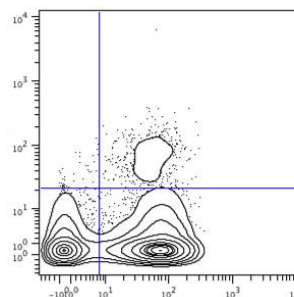
**Isotype:** Rat IgG2a

**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  $\mu$ l for up to  $3 \times 10^6$  live cells in 100  $\mu$ l. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Balb/c mouse splenocytes stained with 158Gd-anti-Foxp3 (FJK-16s) and 145Nd-anti-CD4 (RM4-5). T lymphocytes 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-7R $\alpha$  and IL-17. Some of these effects are due to its binding to the pro-inflammatory Th17 master-regulator ROR $\gamma$ (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.

### Contact Information:

Sales: [sales@DVSsciences.com](mailto:sales@DVSsciences.com) | Support: [support@DVSsciences.com](mailto:support@DVSsciences.com)  
[www.DVSsciences.com](http://www.DVSsciences.com) | For assistance by phone: 855-DVS-CYTO

This product is intended for Research Use Only. This product is not intended for therapeutic or diagnostic purposes in humans or animals.  
This product contains antibodies manufactured by and sold under license from eBiosciences (XX-5773) and licensees thereof.

© 2011 DVS Sciences Inc. The trademarks mentioned herein are the property of DVS Sciences Inc. or their respective owners. DVS Sciences Inc. products are warranted to meet stated product specifications and to conform to label descriptions when used and stored properly. Unless otherwise stated, this warranty is limited to 6 months from date of sales for products used, handled and stored according to DVS Sciences, Inc. instructions. DVS Sciences, Inc. sole liability for the product is limited to replacement of the product or refund of the purchase price. Product may not be resold, modified for resale or used to manufacture commercial products without prior written approval from DVS Sciences Inc.

