

## Anti-Mouse CD115-144Nd

**Catalog #:** 3144012B

**Package Size:** 100 tests

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

**Cross Reactivity:** Mouse

**Clone:** AFS98

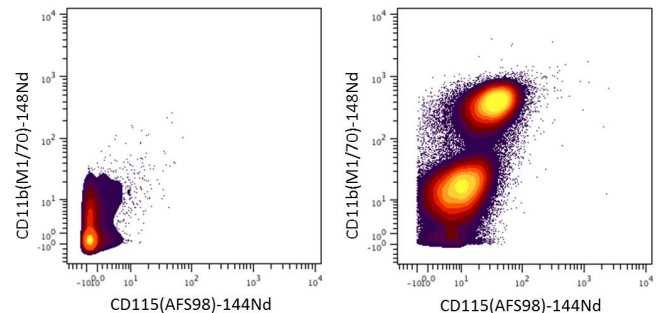
**Isotype:** Rat IgG2a

**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.



Thioglycolate-induced peritoneal-exudate cells were stained with 148Nd-anti-CD11b (M1/70) and 144Nd-anti-CD115 (AFS98). Viable erythrocytes (right) and monocytes (left) are displayed in the analysis.

### Description

CD115 is encoded by the c-fms proto-oncogene, and belongs to the class III receptor tyrosine kinase family. CD115 is a cell-surface receptor identified for colony-stimulating factor-1 (CSF-1), a major cytokine regulating differentiation, proliferation and migration of myeloid lineage cells. CD115 is expressed by monocyte, macrophage, osteoclast, and some epithelial cells. IL-34 has more recently been identified as another CD115 ligand with comparable biological effects. In humans, CD115 and CSF-1 overexpression are frequent in a wide variety of epithelial tumors, and have been correlated with more aggressive diseases and poor prognosis.

### 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 | Support: support@DVSsciences.com  
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 eBioscience 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 sale 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.

