

# Anti-CD278/ICOS-143Nd

Catalog: 3143025B

Package size: 100 tests

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

Cross-reactivity: Rhesus, Rat, Mouse, Human, Porcine

Clone: C398.4A

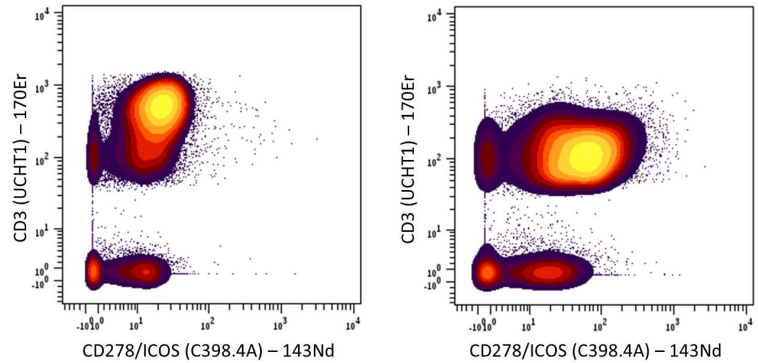
Isotype: Hamster IgG

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.



Human PBMCs were incubated for 3 days in media alone (left) or with PHA (right) and then stained with 170Er-anti-CD3 (UCHT1) and 143Nd-anti-CD278/ICOS (C398.4A). Total viable cells are displayed in the analysis.

## Description

CD278, also known as ICOS, is a 50–60 kDa homodimeric membrane glycoprotein and a member of the CD28 family reacting with the inducible co-stimulatory (ICOS) molecule. It is highly expressed on activated T cells. It is the receptor for B7-related protein 1 (B7RP-1). Like CD28, ICOS is a co-stimulatory signal for T cell activation and proliferation and cytokine production. It is not expressed on resting or activated B cells, monocytes, NK cells, granulocytes, dendritic cells or platelets. Unlike the constitutively expressed CD28, ICOS expression is *de novo*. It has been suggested that ICOS may play an important role in IL-10 production. In the presence of IL-10, purified recombinant human ICOS significantly increased *in vitro* B cell growth stimulated by pokeweed mitogen (PWM) and enhanced production of IgG.

## 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 (2009): 6,813–22.

Ornatsky, O. I., et al. Highly Multiparametric Analysis by Mass Cytometry. *Journal of Immunological Methods* 361 (2010): 1–20.

**For technical support visit [fluidigm.com/support](http://fluidigm.com/support).**

**North America** +1 650 266 6100 | Toll-free: +1 866 358 4354 in the US | [support.northamerica@fluidigm.com](mailto:support.northamerica@fluidigm.com) **Europe** +33 1 60 92 42 40 | [support.europe@fluidigm.com](mailto:support.europe@fluidigm.com)

**China (excluding Hong Kong)** +86 21 3255 8368 | [techsupportchina@fluidigm.com](mailto:techsupportchina@fluidigm.com) **Japan** +81 3 3662 2150 | [techsupportjapan@fluidigm.com](mailto:techsupportjapan@fluidigm.com)

**All other Asian countries** +1 650 266 6100 | [techsupportasia@fluidigm.com](mailto:techsupportasia@fluidigm.com) **Central and South America** +1 650 266 6100 | [techsupportlatam@fluidigm.com](mailto:techsupportlatam@fluidigm.com)

**For Research Use Only. Not for use in diagnostic procedures.**

This product contains antibodies manufactured by and sold under license from BioLegend<sup>®</sup> and licensees thereof.

Information in this publication is subject to change without notice. **Safety data sheet information** [www.fluidigm.com/sds](http://www.fluidigm.com/sds) **Patent and license information** [www.fluidigm.com/legalnotices](http://www.fluidigm.com/legalnotices) | Fluidigm, the Fluidigm logo, and CyTOF are trademarks or registered trademarks of Fluidigm Corporation in the United States and/or other countries. © 2016 Fluidigm Corporation. All rights reserved. 11/2016