

# Anti-CD278/ICOS-168Er

Catalog: 3168024B

Package size: 100 tests

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

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

Clone: C398.4A

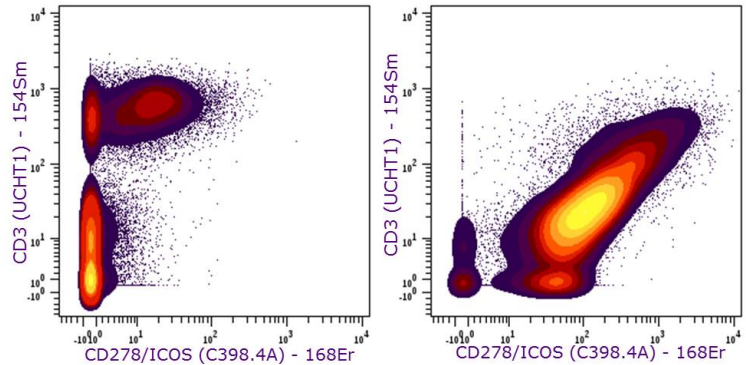
Isotype: Hamster IgG

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



Human PBMCs were incubated for 3 days in media alone (left) or with PHA (right) and then stained with 154Sm-anti-CD3 (UCHT1) and 168Er-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.

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