

Anti-Mouse CD278-176Yb

Catalog: 3176014B

Package size: 100 tests

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

Clone: 7E.17G9

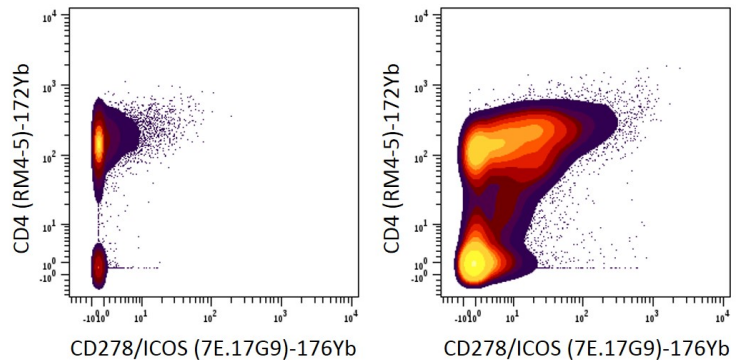
Isotype: Rat IgG2b

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



Mouse splenocytes were incubated for 3 days in media alone (left) or with concanavalin A (right) and then stained with 172Yb-anti-CD4 (RM4-5) and 176Yb-anti-CD278/ICOS (7E.17G9). Viable CD3+CD19- 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, which reacts with the inducible costimulatory (ICOS) molecule. It is highly expressed on activated T cells. It is the receptor for B7-related protein 1 (B7RP-1) and also, like CD28, ICOS is a costimulatory signal for T cell activation, 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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