Enabling Science through Innovation

Technical Data Sheet

# Anti-Human CD278 (ICOS) PE

Catalog Number :30811-60

RUO: For Research Use Only. Not for use in diagnostic procedures.

## Product Information

**Clone:** ISA-3

**Format/Conjugate:** PE

**Concentration:** 5 uL (0.03 ug)/test

**Reactivity:** Human

**Laser:** Blue (488nm), Yellow/Green (532-561nm)

**Peak Emission:** 578nm

**Peak Excitation:** 496nm

**Filter:** 585/40

**Brightness (1=dim,5=brightest):** 5

**Isotype:** Mouse IgG1, kappa

**Formulation:** Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.

**Storage:** Product should be kept at 2-8°C and protected from prolonged exposure to light.

**Applications:** FC

## Description

The ISA-3 monoclonal antibody specifically reacts with human CD278 or Inducible COStimulatory molecule (ICOS), a 47-60 kDA homodimeric glycoprotein also known as H4, AILIM, and CRP-1. It is expressed on activated T cells and a group of thymocytes and is involved in the proliferation, activation, and cytokine production of T cells. When plate-bound, the ISA-3 antibody induces the production of IL-4,5,10 in T cells.

## Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

## Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

## References

1.Hutloff, A., Dittrich, A. M., Beier, K. C., Eljaschewitsch, B., Kraft, R., Anagnostopoulos, I., Kroczek, R. A. (1999). ICOS is an inducible T-cell co-stimulator structurally and functionally related to CD28.;Nature,;402, 21-24.

2. Quiroga, M. F., Pasquinelli, V., Martínez, G. J., Jurado, J. O., Zorrilla, L. C., Musella, R. M., ... García, V. E. (2006). Inducible costimulator: a modulator of IFN-γ production in human tuberculosis.;The Journal of Immunology,;176(10), 5965-5974.

3. Buonfiglio, D., Bragardo, M., Redoglia, V., Vaschetto, R., Bottarel, F., Bonissoni, S., ... Dianzani, U. (2000). The T cell activation molecule H4 and the CD28-like molecule ICOS are identical.;European journal of immunology,30(12), 3463-3467.

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