

## Technical Data Sheet

### Anti-human/mouse/rat CD278 (ICOS) Antibody

**Catalog Number:** 111301, 111302  
**Size:** 25 ug, 100 ug  
**Target Name:** CD278, ICOS, Inducible Costimulatory molecule  
**Regulatory Status:** RUO

#### Product Details

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**Clone:** C398.4A-Rec  
**Application:** Flow Cytometry  
**Reactivity:** Human, mouse, rat  
**Format:** Purified  
**Target Name:** CD278, ICOS, Inducible Costimulatory molecule  
**Isotype:** Mouse IgG1  
**Antibody Type:** Monoclonal  
**Regulatory Status:** RUO  
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide  
**Protein Concentration:** 0.5 mg/mL  
**Storage&Handling:** The antibody solution should be stored between 2°C and 8°C  
**Recommended Usage:** For flow cytometric staining, it is recommended to use less than 0.2 ug of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application.

#### Background Information

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ICOS is a 47-57 kDa costimulatory molecule homologous to CD28/CTLA-4 and is expressed on activated T cells and a subset of thymocytes. Engagement of ICOS enhances T cell proliferation, promotes cytokine production such as IL-4 and IL-10, and plays an important role in humoral immunity and Th2 cell differentiation.