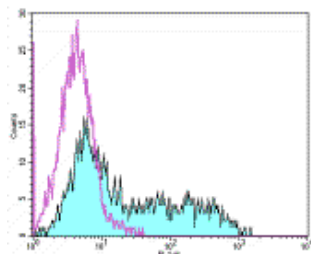


## Anti-Mouse/Rat CD278 (ICOS) Purified

**Catalog Number:** 14-9949

**Also Known As:**

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



Staining of Con A-stimulated mouse splenocytes with 0.25 ug of Anti-Mouse/Rat CD278 (ICOS) Purified (filled histogram) or 0.25 ug of Hamster IgG Isotype Control Purified (cat. 14-4888) (open histogram) followed by Anti-Armenian Hamster IgG FITC (cat. 11-4111). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse/Rat CD278 (ICOS) Purified

**REF** **Catalog Number:** 14-9949

**Clone:** C398.4A

**Concentration:** 0.5 mg/mL

**Host/Isotype:** Armenian Hamster IgG

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



**Temperature Limitation:** Store at 2-8°C.



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial



**Caution, contains Azide**

### Description

The C398.4A monoclonal antibody reacts with ICOS (Inducible Costimulatory molecule), also known as H4/CRP-1/AILIM, and cross-reacts with mouse and rat ICOS. ICOS is a T cell specific activation molecule and a third member of the CD28/CTLA-4 family. A dimer of 47-57 kDa, ICOS is expressed on activated T cells, has potent costimulatory activity for T cell activation and proliferation and is required for humoral immune response. ICOS binds to its ligand on activated APC including B cells called B7h/B7RP-1, is thought to play a protective role in inflammatory autoimmune diseases and be involved in the development of Th2 cells. C398.4A is reported to display strong costimulation of proliferation of T cell clones, intermediate costimulation on activated T cells, and weak costimulation on fresh resting T cells. It is a good costimulator of IL-10 production especially from pre-activated cells that express high level of H4/ICOS. The epitope recognized by C398.4A is different from that bound by the ICOSL (i.e., C398.4A does not block binding of ICOSL).

### Applications Reported

The C398.4A antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining. This has also been reported for *in vitro* functional assays. This mAb does not work for immunoblotting (WB). (Please use Functional Grade purified C398.4A, cat. 16-9949, in functional assays.)

### Applications Tested

This C398.4A antibody has been tested by flow cytometric analysis of Con A-stimulated mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Arimura Y, Shiroki F, Kuwahara S, Kato H, Dianzani U, Uchiyama T, Yagi J. Akt is a neutral amplifier for Th cell differentiation. *J Biol Chem.* 2004 Mar 19;279(12):11408-16. [activating]

Lucia, M. B., D. Buonfiglio, et al. 2000. Expression of the novel T cell activation molecule hpH4 in HIV-infected patients: correlation with disease status. *AIDS Res Hum Retroviruses* 16(6): 549-57.

Buonfiglio, D., M. Bragardo, et al. 1999. Characterization of a novel human surface molecule selectively expressed by mature thymocytes, activated T cells and subsets of T cell lymphomas. *Eur J Immunol* 29(9): 2863-74.

Redoglia, V., U. Dianzani, et al. 1996. Characterization of H4: a mouse T lymphocyte activation molecule functionally associated with the CD3/T cell receptor. *Eur J Immunol* 26(11): 2781-9.

**Related Products**

13-4113 Anti-Armenian Hamster IgG Biotin (Polyclonal)

14-4888 Armenian Hamster IgG Isotype Control Purified (eBio299Arm)

17-4317 Streptavidin APC

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