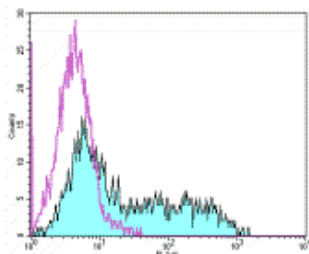


Anti-Mouse/Rat CD278 (ICOS) Functional Grade Purified

Catalog Number: 16-9949

Also Known As:

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



Staining of 2-day Con A-stimulated mouse splenocytes with 0.25 ug Anti-Mouse/Rat CD278 (ICOS) Purified (filled histogram) or 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) Functional Grade Purified

REF Catalog Number: 16-9949

Clone: C398.4A

Concentration: 1 mg/mL

Host/Isotype: Armenian Hamster IgG

Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial

Description

The C398.4A monoclonal antibody reacts with ICOS (Inducible Costimulatory molecule), also known as H4/CRP-1/ALIM, 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. This has also been reported for *in vitro* 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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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)

16-4888 Armenian Hamster IgG Isotype Control Functional Grade Purified (eBio299Arm)

17-4317 Streptavidin APC

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