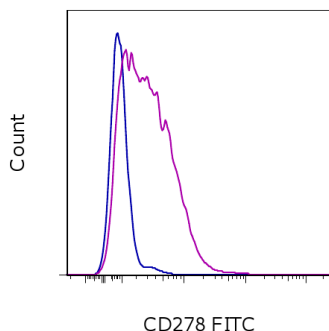


Anti-Mouse/Rat CD278 (ICOS) FITC

Catalog Number: 11-9949

Also known as: Inducible T-cell COStimulator

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



Staining of 3-day Con A-stimulated C57Bl/6 splenocytes with 0.25 μ g of Armenian Hamster IgG Isotype Control FITC (cat. 11-4888) (blue histogram) or 0.25 μ g of Anti-Mouse/Rat CD278 (ICOS) FITC (purple histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse/Rat CD278 (ICOS) FITC



Catalog Number: 11-9949

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. Do not freeze. Light sensitive material.

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/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.

Applications Tested

The C398.4A antibody has been tested by flow cytometric analysis of mouse Con A-activated splenocytes. This can be used at less than or equal to 0.5 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 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.

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com

Anti-Mouse/Rat CD278 (ICOS) FITC

Catalog Number: 11-9949

Also known as: Inducible T-cell COStimulator

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

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

00-4222 Flow Cytometry Staining Buffer

11-4888 Armenian Hamster IgG Isotype Control FITC (eBio299Arm)

12-0251 Anti-Mouse CD25 PE (PC61.5)

65-0865 Fixable Viability Dye eFluor® 780