SONY

Product Data Sheet

Purified anti-human/mouse/rat CD278 (ICOS)

Catalog # / Size: 2167510 / 500 µg

Clone: C398.4A

Isotype: Hamster IgG

Immunogen: Mouse T cell clone D10.G4.1

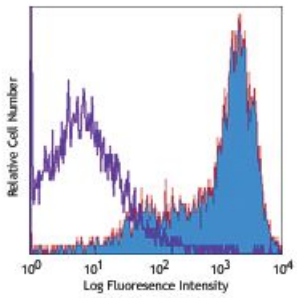
Reactivity: Human, Mouse, Non-human primate, Other, Rat

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Workshop Number: V CD21.4, VI CD21.5

Concentration: 0.5

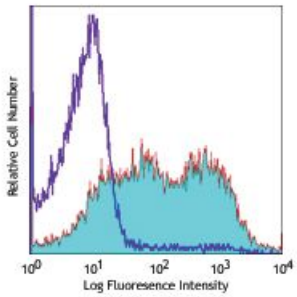


PHA-stimulated human peripheral blood lymphocytes (3 days) stained with purified C398.4A, followed by biotinylated anti-Armenian hamster IgG and Sav-PE

Applications:

Applications: Flow Cytometry, Immunoprecipitation

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 1.0 µg per 10^6 cells in 100 µl volume. It is recommended that reagents be titrated for optimal performance in the particular application.



PHA-stimulated human peripheral blood lymphocytes (3 days) stained with C398.4A Alexa Fluor® 647

Application Notes: The C398.4A antibody is useful for flow cytometric analysis and is able to costimulate T cell activation and proliferation. Additional reported applications (for the relevant formats) include: immunoprecipitation1 and *in vitro* costimulation of T cell activation[1,3,4]. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 313512).

Application References:

1. Redoglia V, *et al.* 1996. *Eur. J. Immunol.* 26:2781. (FC IP Costim)
2. Yagi J, *et al.* 2003. *J. Immunol.* 171:783. (FC)
3. Arimura Y, *et al.* 2002. *Int. Immunol.* 14:555. (Costim)
4. Arimura Y, *et al.* 2004. *J. Biol. Chem.* 279:11408. (Costim)

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Description: ICOS, also known as inducible costimulatory molecule and H4, is a 47-57 kD protein. This protein is homologous to the CD28/CTLA-4 proteins. ICOS is expressed on activated T cells and a subset of thymocytes. It is able to costimulate T cells proliferation. In addition, ICOS is involved in humoral immune responses (B cell germinal center formation). The ICOS ligand is B7h/B7RP-1 or B7-H2. ICOS stimulation has been shown to potentiate TCR-mediated IL-4 and IL-10 production and has been proposed to play a role in Th2 cell development.

Antigen References:

1. Redoglia V, *et al.* 1996. *Eur. J. Immunol.* 26:2781.
2. Hutloff A, *et al.* 1999. *Nature* 397:263.
3. Buonfiglio D, *et al.* 2000. *Eur. J. Immunol.* 30:3463.
4. Coyle AJ, *et al.* 2000. *Immunity* 13:95.

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