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

Catalog # / Size: 2167535 / 25 μg

2167540 / 100 µg

Clone: C398.4A

Isotype: Hamster IgG

Immunogen: Mouse T cell clone D10.G4.1

Reactivity: Rat

Preparation: The antibody was purified by affinity

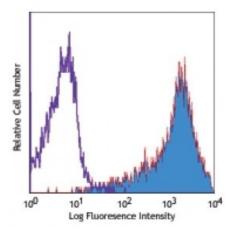
chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and

unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Concentration: 0.2



PHA-stimulated human peripheral blood lymphocytes (3 days) stained with C398.4A PE

Applications:

Applications: Flow Cytometry

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 ≤ 0.5 microg per 10^6 cells in 100 microL volume. It is

recommended that reagents be titrated for optimal performance in the particular

application.

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 $^{\scriptscriptstyle \mathsf{TM}}$ 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)

References: 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)

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. 2