

Product Data Sheet

10⁰

by Sav-PÉ

10¹

102

Log Fluoresence Intensity

PHA-stimulated human peripheral

blood lymphocytes (3 days) stained with biotinylated C398.4A, followed

103

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

Catalog # / Size: 313503 / 50 µg

313504 / 500 µg

Clone: C398.4A

Isotype: Armenian Hamster IgG

Immunogen: Mouse T cell clone D10.G4.1

Reactivity: Human, Mouse, Rat, Cross-Reactivity: Rhesus, Swine (Pig, Porcine)

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

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

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent

staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is $\leq 0.5~\mu g$ per 10^6 cells in 100 μl 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,

immunohistochemical staining of acetone-fixed frozen sections, 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)

Yagi J, et al. 2003. J. Immunol. 171:783. (FC)
 Arimura Y, et al. 2002. Int. Immunol. 14:555. (Costim)
 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. 2000. Immunity 13:95.

Related Products: Product Clone Application

APC Streptavidin
PE Streptavidin
FC, ICFC
PE Streptavidin
Cell Staining Buffer
FC, ICFC



