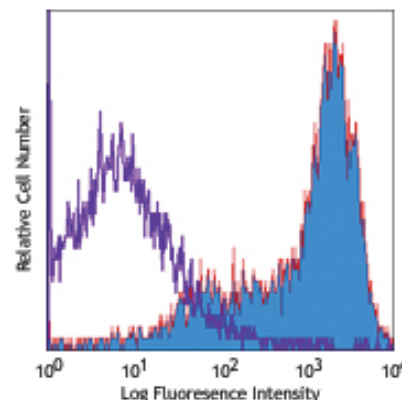


Product Data Sheet

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

Catalog # / Size: 313502 / 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.
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.



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: FC - Quality tested
 IP, IHC - Reported in the literature

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 ≤ 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.

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)
 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.* 2000. *Immunity* 13:95.

Related Products:

Product
 Biotin Goat anti-hamster (Armenian) IgG
 FITC Goat anti-hamster (Armenian) IgG
 Cell Staining Buffer
 Purified Armenian Hamster IgG Isotype Ctrl

Clone
 Poly4055
 Poly4055
 HTK888

Application
 FC, ELISA, ICFC, IHC, IF, WB
 FC, ICFC
 FC, ICC, ICFC
 FC, ICC, ICFC, IF, IP, WB



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