

Product Data Sheet

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

Catalog # / Size: 313511 / 50 µg

313512 / 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 LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity

chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no

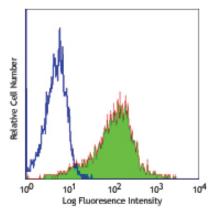
preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the

protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution

contains no preservative; handle under aseptic conditions.



PHA-stimulated human peripheral blood lymphocytes (3 days) stained with LEAF™ purified C398.4A, followed by anti-Armenian hamster

Applications:

Applications: FC - Quality tested

IP, IHC, Costim - Reported in the literature

Recommended Usage: For immunofluorescent staining, the suggested use of this reagent is ≤ 1.0 μg per 10⁶ cells in 100 μl volume. It is

recommended that reagents be titrated for optimal performance in the particular application. The LEAFTM (low

endotoxin, azide-free) format is recommended for functional assays.

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 Clone Application

Poly4055 FC, ELISA, ICFC, IHC, IF, WB Biotin Goat anti-hamster (Armenian) IgG

FITC Goat anti-hamster (Armenian) IgG Poly4055 FC, ICFC

FC, ICC, ICFC Cell Staining Buffer

LEAF™ Purified Armenian Hamster IgG Isotype Ctrl FC, ICFC, WB, IP, ICC, IF, FA **HTK888**



