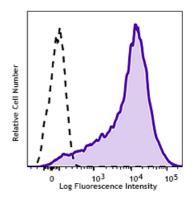
PE/Cyanine5 anti-human/mouse/rat CD278 (ICOS)

Catalog # / Size:	2167795 / 25 tests 2167800 / 100 tests
Clone:	C398.4A
lsotype:	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 and conjugated with PE/Cyanine5 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)
Concentration:	Lot-specific



PHA stimulated human peripheral blood lymphocytes (3 days) were stained with antihuman/mouse/rat CD278 (ICOS) (clone C398.4A) PE/Cyanine5 (filled histogram) or PE/Cyanine5 Armenian Hamster IgG isotype control (open histogram).

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 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each 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: immunoprecipitation ¹ and <i>in vitro</i> costimulation of T cell activation ^{1,3,4} . The LEAF $^{\text{m}}$ purified antibody (Endotoxin < 0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 313512).
Application References:	 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.

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Antigen	1. Redoglia V, <i>et al.</i> 1996. <i>Eur. J. Immunol.</i> 26:2781.
References:	2. Hutloff A, et al. 1999. Nature 397:263.
	3. Buonfiglio D, et al. 2000. Eur. J. Immunol. 30:3463.

4. Coyle ÅJ, et al. 2000. Immunity 13:95.