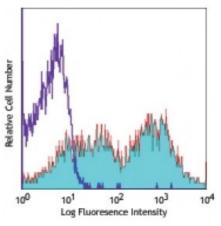
Product Data Sheet

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

Catalog # / Size:	2167550 / 100 μg 2167545 / 25 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 APC under optimal conditions. The solution is free of unconjugated APC 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 APC

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 ≤ 1.0 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 <i>in vitro</i> costimulation of T cell activation ^{1,3,4} . The LEAF ^{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, <i>et al.</i> 1996. <i>Eur. J. Immunol.</i> 26:2781. (FC IP Costim) Yagi J, <i>et al.</i> 2003. <i>J. Immunol.</i> 171:783. (FC) Arimura Y, <i>et al.</i> 2002. <i>Int. Immunol.</i> 14:555. (Costim) Arimura Y, <i>et al.</i> 2004. <i>J. Biol. Chem.</i> 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:	 Redoglia V, <i>et al.</i> 1996. <i>Eur. J. Immunol.</i> 26:2781. Hutloff A, <i>et al.</i> 1999. <i>Nature</i> 397:263. Buonfiglio D, <i>et al.</i> 2000. <i>Eur. J. Immunol.</i> 30:3463. Coyle AJ, <i>et al.</i> 2

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