

Product Data Sheet

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

Catalog # / Size:	313507 / 25 μg 313508 / 100 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 PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.	
Concentration:	0.2 mg/ml	
Storage:	The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.	





PHA-stimulated human peripheral blood lymphocytes (3 days) stained with C398.4A PE

Applications:	FC - Quality tested	widi	0000.4472	
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 μ l 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: immunoprecipitation ¹ , immunohistochemical staining of acetone-fixed frozen sections, and <i>in vitro</i> 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, <i>et al.</i> 1996. <i>Eur. J. Immunol.</i> 26:2781. (FC IP Costim) 2. Yagi J, <i>et al.</i> 2003. <i>J. Immunol.</i> 171:783. (FC) 3. Arimura Y, <i>et al.</i> 2002. <i>Int. Immunol.</i> 14:555. (Costim) 4. 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, et al. 1996. Eur. J. Immunol. 26:2781. Hutloff A, et al. 1999. Nature 397:263. Buonfiglio D, et al. 2000. Eur. J. Immunol. 30:3463. Coyle AJ, et al. 2000. Immunity 13:95. 			
Related Products	: Product Cell Staining Buffer PE Armenian Hamster IgG Isotype Ctrl Human TruStain FcX™ (Fc Receptor Blocking Solution)	Clone HTK888	Application FC, ICC, ICFC FC, ICFC FC, ICC, ICFC	



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