SONY

Product Data Sheet

PE anti-mouse CD278 (ICOS)

Catalog # / Size: 1187030 / 200 µg
1187025 / 50 µg

Clone: 7E.17G9

Isotype: Rat IgG2b, κ

Immunogen: Mouse ICOS cDNA and ICOS hexahistidine fusion protein

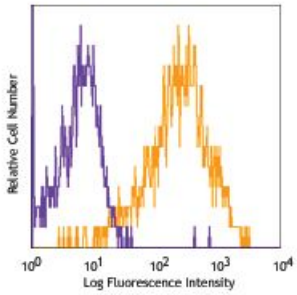
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Workshop Number: 750 under optimal conditions.

Concentration: 0.2



Con A-stimulated (3 days) C57BL/6 splenocytes stained with 7E.17G9 PE.

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 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: blocking of ligand binding. The LEAF™ format is suggested for blocking studies.

Application References:

1. Akbari O, *et al.* 2002. *Nat. Med.* 8:1024.
2. Harada H, *et al.* 2003. *J. Clin. Invest.* 112:234.
3. McAdam AJ, *et al.* 2000. *J. Immunol.* 165:5035. (FC Block)
4. Tan SL, *et al.* 2006. *J. Immunol.* 176:2872. PubMed

Description: The 7E.17G9 antibody reacts with the 47-57 kD ICOS protein, also known as inducible costimulatory molecule, and H4. This protein is homologous to the CD28/CTLA-4 proteins. ICOS is expressed on activated T cells and a subset of thymocytes and can costimulate T cells and induce proliferation. In addition ICOS has been shown to be involved in humoral immune responses (B cell germinal center formation). The ICOS ligand, B7h/B7RP-1 and B7-H2 is constitutively expressed in B cell areas of secondary lymphoid organs and can be induced in other tissues by LPS. 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. ICOS stimulation has been shown to be involved in airway tolerance and the downregulation of pulmonary inflammation.

Antigen References:

1. Rudd CE, *et al.* 2003. *Nat. Rev. Immunol.* 3:544.
2. McAdam AJ, *et al.* 2000. *J. Immunol.* 165:5035.
3. Mak TW, *et al.* 2003. *Nat. Immunol.* 4:765

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