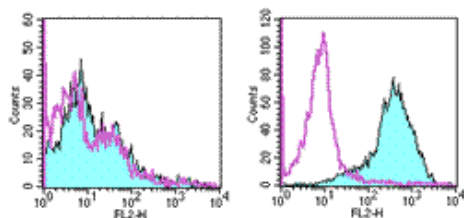


Anti-Mouse CD278 (ICOS) Functional Grade Purified

Catalog Number: 16-9942

Also Known As:

RUO: For Research Use Only



Staining of unstimulated (left) and 3 day ConA activated (right) BALB/c splenocytes with 0.06 ug of Rat IgG2b Isotype Control Functional Grade Purified (cat. 16-4031) (open histogram) or 0.06 ug of Anti-Mouse CD278 (ICOS) Purified (filled histogram) followed by Anti-Rat IgG Biotin (cat. 13-4813) and Streptavidin PE (cat.12-4317). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD278 (ICOS) Functional Grade Purified

REF **Catalog Number:** 16-9942

Clone: 7E.17G9

Concentration: 1 mg/mL

Host/Isotype: Rat IgG2b, kappa


Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide

 **Temperature Limitation:** Store at 2-8°C.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

Description

The 7E.17G9 monoclonal antibody reacts with mouse ICOS (Inducible COStimulatory molecule), a T cell specific molecule and a third member of the CD28/CTLA-4 family. A homodimer of 47-57 kDa, ICOS is expressed on activated T cells, has potent costimulatory activity for T cell activation and proliferation and is required for humoral immune response. ICOS binds to its ligand on activated APC including B cells called B7h/B7RP-1 and is thought to play a protective role in inflammatory autoimmune diseases. ICOS may be involved in the development of Th2 cells.

Applications Reported

7E.17G9 has been reported for use in flow cytometric analysis and for inhibition of ligand binding in functional assays.

Applications Tested

The 7E.17G9 antibody has been tested by flow cytometric analysis of unstimulated and ConA activated (3 day) mouse splenocyte suspensions and can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Akbari O, Freeman GJ, Meyer EH, Greenfield EA, Chang TT, Sharpe AH, Berry G, DeKruyff RH, Umetsu DT. 2002. Antigen-specific regulatory T cells develop via the ICOS-ICOS-ligand pathway and inhibit allergen-induced airway hyperreactivity. *Nat Med.* 8:1024-32.

McAdam AJ, Greenwald RJ, Levin MA, Chernova T, Malenkovich N, Ling V, Freeman GJ, Sharpe AH. 2001. ICOS is critical for CD40-mediated antibody class switching. *Nature.* 409:102-5.

McAdam AJ, Chang TT, Lumelsky AE, Greenfield EA, Boussiotis VA, Duke-Cohan JS, Chernova T, Malenkovich N, Jabs C, Kuchroo VK, Ling V, Collins M, Sharpe AH, Freeman GJ. 2000. Mouse inducible costimulatory molecule (ICOS) expression is enhanced by CD28 costimulation and regulates differentiation of CD4⁺ T cells. *J Immunol.* 165:5035-40.

Related Products

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

16-4031 Rat IgG2b K Isotype Control Functional Grade Purified

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