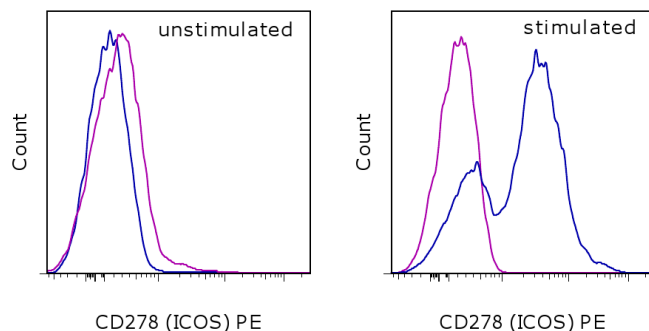


Anti-Mouse CD278 (ICOS) PE

Catalog Number: 12-9942

Also known as:

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of unstimulated (left) and 3-day Con A-stimulated (right) BALB/c splenocytes with 0.06 ug of Rat IgG2b K Isotype Control PE (cat. 12-4031) (blue histogram) or 0.06 ug of Anti-Mouse CD278 (ICOS) PE (purple histogram). Total viable cells, as determined by Fixable Viability Dye eFluor® 660, were used for analysis.

Product Information

Contents: Anti-Mouse CD278 (ICOS) PE



Catalog Number: 12-9942

Clone: 7E.17G9

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2b, kappa

Formulation: aqueous buffer, 0.09% sodium

azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide



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

The 7E.17G9 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The 7E.17G9 antibody has been tested by flow cytometric analysis of Con A-stimulated mouse splenocyte suspensions. This can be used at less than or equal to 0.25 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.*

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Anti-Mouse CD278 (ICOS) PE

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165:5035-40.

Related Products

11-9985 Anti-Mouse CD279 (PD-1) FITC (J43)

12-4031 Rat IgG2b K Isotype Control PE

65-0864 Fixable Viability Dye eFluor® 660