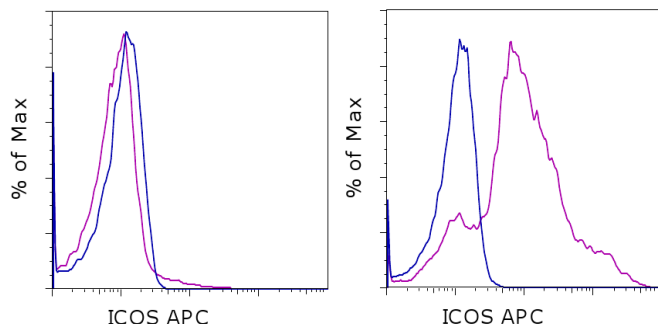


Anti-Human CD278 (ICOS) APC

Catalog Number: 17-9948

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

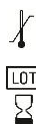


Staining of 3-day unstimulated (left) or 3-day Anti-Human CD3/CD28-stimulated (cat. 16-0039 and 16-0289)(right) normal human peripheral blood cells with Mouse IgG1 K Isotype Control APC (cat. 17-4714) (blue histogram) or Anti-Human CD278 (ICOS) APC (purple histogram). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD278 (ICOS) APC
Catalog Number: 17-9948
Clone: ISA-3
Concentration: 5 μ L (0.125 μ g)/test
Host/Isotype: Mouse IgG1, 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



Description

The ISA-3 monoclonal antibody reacts with human ICOS (Inducible COSTimulatory molecule), also known as H4, CRP-1 and AILIM. ICOS is a T cell specific activation molecule and a third member of the CD28/CTLA-4 family. Human ICOS has a relative molecular mass of 55-60 kDa, composed of 27 kDa and 29 kDa chains. Human ICOS on activated T cells has potent costimulatory activity for T cell activation and is required for humoral immune responses, in particular for memory B cell and plasma cell generation. ICOS binds to its ligand, B7h/B7RP-1 expressed on activated APCs (antigen presenting cells) and on a number of inflamed peripheral tissues. Plate-bound ISA-3 is costimulatory for T cells and induces production of IL-4, IL-5, IL-10 and other cytokines, but not IL-2. ISA-3 has the same reactivity pattern and characteristics as F44. ISA-3 was generated against the human ICOS antigen. C398.4A, anti-mouse ICOS/H4 (catalog # 14-9949), was shown to cross-react with human ICOS but binds to an epitope different from ISA-3. C398.4A stains activated cells brighter than ISA-3; however, it also exhibits higher staining of non-activated human peripheral blood or isolated PBMC. To achieve the brightest staining of ICOS on activated human T cells, please use 13-9948 or 12-9948 rather than 11-9948.

Applications Reported

This ISA-3 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This ISA-3 antibody has been pre-titrated and tested by flow cytometric analysis of stimulated human peripheral blood cells. This can be used at 5 μ L (0.125 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^6 cells/test.

References

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Grimbacher B, Hutloff A, Schlesier M, Glocker E, Warnatz K, Dräger R, Eibel H, Fischer B, Schaffer AA, Mages HW,

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Kroczek RA, Peter HH. 2003. Homozygous loss of ICOS is associated with adult-onset common variable immunodeficiency. *Nat Immunol.* 4(3):261-8.

Buonfiglio D, Bragardo M, Redoglia V, Vaschetto R, Bottarel F, Bonissoni S, Bensi T, Mezzatesta C, Janeway Jr CA, Dianzani U. 2000. The T cell activation molecule H4 and the CD28-like molecule ICOS are identical. *Eur J Immunol.* 30(12):3463-7.

Beier KC, Hutloff A, Dittrich AM, Heuck C, Rauch A, Buchner K, Ludewig B, Ochs HD, Mages HW, Kroczeck RA. 2000. Induction, binding specificity and function of human ICOS. *Eur. J. Immunol.* 30, 3707.

Hutloff A, Dittrich AM, Beier KC, Eljaschewitsch B, Kraft R, Anagnostopoulos I, Kroczeck RA. 1999. ICOS is an inducible T-cell co-stimulator structurally and functionally related to CD28. *Nature.* 397(6716):263-6.

Related Products

16-0039 Anti-Human CD3 Functional Grade Purified (HIT3a)

16-0289 Anti-Human CD28 Functional Grade Purified (CD28.2)

17-4714 Mouse IgG1 K Isotype Control APC (P3.6.2.8.1)

25-0259 Anti-Human CD25 PE-Cy7 (BC96)