# CD278 (ICOS) Monoclonal Antibody (7E.17G9), PE-Cyanine5, eBioscience™

| Product Details | |
|---|---|
| Size | 100 µg |
| Species Reactivity | Mouse |
| Published Species | Mouse, Human |
| Host/Isotype | Rat / IgG2b, kappa |
| Recommended Isotype Control | Rat IgG2b kappa Isotype Control (eB149/10H5), PE-Cyanine5, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | 7E.17G9 |
| Conjugate | PE-Cyanine5 |
| Excitation/Emission Max | 568/666 nm |
| Form | Liquid |
| Concentration | 0.2 mg/mL |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2 |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_468826 |

| Applications | Tested Dilution | Publications |
|---|---|---|
| Flow Cytometry (Flow) | 0.5 µg/test | 11 Publications |

## Product Specific Information

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.

Applications Tested: The 7E.17G9 antibody has been tested by flow cytometric analysis of Con A-stimulated mouse splenocytes and can be used at less than or equal to 0.5 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

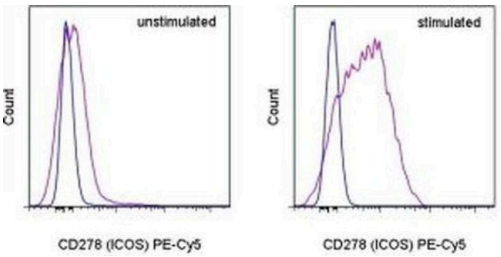
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 667 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD278 (ICOS) Monoclonal Antibody (7E.17G9), PE-Cyanine5, eBioscience™




**CD278 (ICOS) Antibody (15-9942-82) in Flow**
Staining of unstimulated (left) and 3-day Con A-stimulated (right) BALB/c splenocytes with 0.06 µg of Rat IgG2b K Isotype Control PE-Cyanine5 (Product # 15-4031-82) (blue histogram) or 0.06 µg of Anti-Mouse CD278 (ICOS) PE-Cyanine5 (purple histogram). Total viable cells, as determined by Fixable Viability Dye eFluor® 660, were used for analysis.

### View more figures on thermofisher.com

## 11 References

### Flow Cytometry (11)

**Advanced science (Weinheim, Baden-Wurttemberg, Germany)**

**Group 2 Innate Lymphoid Cells Protect Mice from Abdominal Aortic Aneurysm Formation via IL5 and Eosinophils.**

"Published figure using CD278 (ICOS) monoclonal antibody (Product # 15-9942-82) in Flow Cytometry"

Authors: Zhang Y,Liu T,Deng Z,Fang W,Zhang X,Zhang S,Wang M,Luo S,Meng Z,Liu J,Sukhova GK,Li D,McKenzie ANJ,Libby P,Shi GP,Guo J

**Year**
2023

**Frontiers in immunology**

**MALT1 Proteolytic Activity Suppresses Autoimmunity in a T Cell Intrinsic Manner.**

"15-9942 was used in Flow cytometry/Cell sorting to establish that suppression of autoimmune responses is due to the T-cell intrinsic role of MALT1 proteolytic activity."

Authors: Demeyer A,Skordos I,Driege Y,Kreike M,Hochepied T,Baens M,Staal J,Beyaert R

**Year**
2020

**Species**
Mouse

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### More applications with references on thermofisher.com

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