

# CD278 (ICOS) Monoclonal Antibody (7E.17G9), Super Bright™ 436, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	7E.17G9
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2744818

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	3 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:** This 7E.17G9 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This 7E.17G9 antibody has been tested by flow cytometric analysis of stimulated mouse splenocytes. This may 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

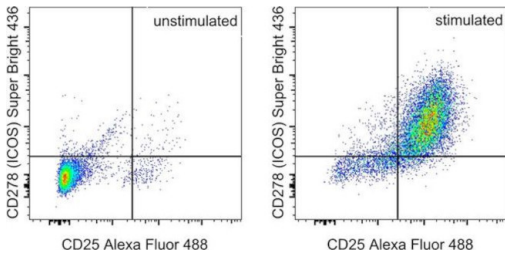
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

## Product Images For CD278 (ICOS) Monoclonal Antibody (7E.17G9), Super Bright™ 436, eBioscience™



### CD278 (ICOS) Antibody (62-9942-82) in Flow

BALB/c mouse splenocytes were unstimulated (left) or stimulated for 72 hours with Con A (Product # 00-4978-03) (right). Cells were then stained with CD25 Monoclonal Antibody, Alexa Fluor 488 (Product # 53-0251-82) and 0.25 µg of CD278 Monoclonal Antibody, Super Bright 436. Total viable cells were used for analysis, as determined by Fixable Viability Dye eFluor 660 (Product # 65-0864-18).

## 3 References

### Flow Cytometry (3)

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 # 62-9942-82) 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

Nature communications

#### Control of T<sub>reg</sub> cell homeostasis and immune equilibrium by Lkb1 in dendritic cells.

"Published figure using CD278 (ICOS) monoclonal antibody (Product # 62-9942-82) in Flow Cytometry"

Authors: Chen S,Fang L,Guo W,Zhou Y,Yu G,Li W,Dong K,Liu J,Luo Y,Wang B,Li Z,Zhao C,Sun Z,Shen Y,Leng Q,Zhou D,Han Z,Huang H,Ren H,Xu G,Feng X

Year  
2018

[View more Flow references on thermofisher.com](#)

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