

# CD278 (ICOS) Monoclonal Antibody (7E.17G9), FITC, 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), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	7E.17G9
Conjugate	FITC
Form	Liquid
Concentration	0.5 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_11218290

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	9 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.

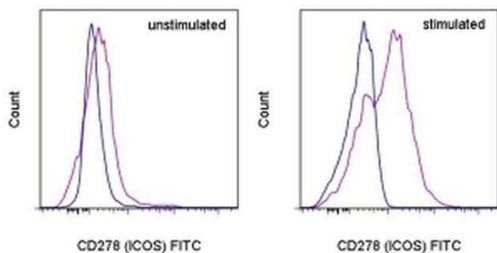
**Applications Reported:** This 7E.17G9 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This 7E.17G9 antibody has been tested by flow cytometric analysis of Con A-stimulated mouse splenocytes. 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 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.

**Excitation:** 488 nm; **Emission:** 520 nm; **Laser:** Blue Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

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



### CD278 (ICOS) Antibody (11-9942-82) 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 FITC (Product # 11-4031-82) (blue histogram) or 0.06 µg of Anti-Mouse CD278 (ICOS) FITC (purple histogram). Total viable cells, as determined by Fixable Viability Dye eFluor® 660, were used for analysis.

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## 9 References

### Flow Cytometry (9)

#### Immunity

#### Negative Co-stimulation Constrains T Cell Differentiation by Imposing Boundaries on Possible Cell States.

"11-9942 was used in Flow cytometry/Cell sorting to implicate negative co-stimulation as a key regulator and determinant of T cell differentiation and suggest that checkpoint blockade might work in part by altering the limits of T cell phenotypes."

Authors: Wei SC, Sharma R, Anang NAS, Levine JH, Zhao Y, Mancuso JJ, Setty M, Sharma P, Wang J, Pe'er D, Allison JP

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2019

#### Nature communications

#### Roquin targets mRNAs in a 3'-UTR-specific manner by different modes of regulation.

"Published figure using CD278 (ICOS) monoclonal antibody (Product # 11-9942-82) in Flow Cytometry"

Authors: Essig K, Kronbeck N, Guimaraes JC, Lohs C, Schlundt A, Hoffmann A, Behrens G, Brenner S, Kowalska J, Lopez-Rodriguez C, Jemielity J, Holtmann H, Reiche K, Hackermüller J, Sattler M, Zavolan M, Heissmeyer V

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

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

## More applications with references on thermofisher.com

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