

CD278 (ICOS) Monoclonal Antibody (7E.17G9), eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	7E.17G9
Conjugate	Unconjugated
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
RRID	AB_468632

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	12 Publications
Functional Assay (FN)	-	1 Publication
Inhibition Assays (IA)	-	1 Publication

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 and for inhibition of ligand binding in functional assays (please use Functional Grade purified, cat. 16-9942).

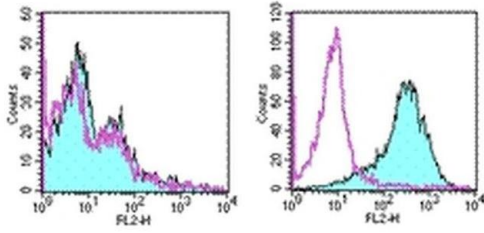
Applications Tested: The 7E.17G9 antibody has been tested by flow cytometric analysis of unstimulated and Con A activated (3 day) mouse splenocytes and can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume 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.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD278 (ICOS) Antibody (14-9942-81) in Flow

Staining of unstimulated (left) and 3 day ConA activated (right) BALB/c splenocytes with 0.06 µg of Rat IgG2b Isotype Control Purified (Product # 14-4031-82) (open histogram) or 0.06 µg of Anti-Mouse CD278 (ICOS) Purified (filled histogram) followed by Anti-Rat IgG Biotin (Product # 13-4813-85) and Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

[View more figures on thermofisher.com](http://thermofisher.com)

Flow Cytometry (12)

Immunity

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

"14-9942 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 # 14-9942-81) 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](#)

Functional Assay (1)

Investigative ophthalmology & visual science

Differential effects of costimulatory pathway modulation on corneal allograft survival.

"14-9942 was used in Immunohistochemistry to examine the effect on corneal allograft survival of modulation of programmed death-1 and inducible costimulatory molecule."

Authors: Watson MP, George AJ, Larkin DF

Species
Mouse

Dilution
Not Cited

Year
2006

Inhibition Assays (1)

Gastroenterology

Dysregulated generation of follicular helper T cells in the spleen triggers fatal autoimmune hepatitis in mice.

"14-9942 was used in Functional assays to identify induction sites, responsible T-cell subsets, and key molecules for induction of autoimmune hepatitis."

Authors: Aoki N, Kido M, Iwamoto S, Nishiura H, Maruoka R, Tanaka J, Watanabe T, Tanaka Y, Okazaki T, Chiba T, Watanabe N

Species
Mouse

Dilution
Not Cited

Year
2011

More applications with references on thermofisher.com

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