

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

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Human, Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	7E.17G9
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_469293

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	4 Publications
Neutralization (Neu)	Assay-Dependent	-
Functional Assay (FN)	Assay-Dependent	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.

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 0.125 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.

Storage and handling: Use in a sterile environment.

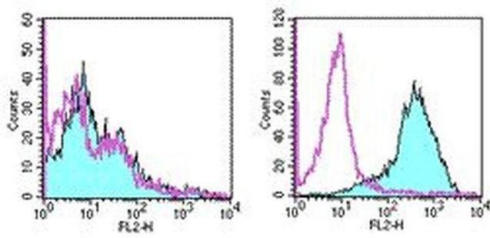
Filtration: 0.2 µm post-manufacturing filtered.

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

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

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

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



CD278 (ICOS) Antibody (16-9942-81) in Flow

Staining of unstimulated (left) and 3 day ConA activated (right) BALB/c splenocytes with 0.06 µg of Rat IgG2b Isotype Control Functional Grade Purified (Product # 16-4031-81) (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](https://www.thermofisher.com)

5 References

Flow Cytometry (4)

Nature communications

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

"Published figure using CD278 (ICOS) monoclonal antibody (Product # 16-9942-81) 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

Nature communications

Extrafollicular CD4⁺ T-B interactions are sufficient for inducing autoimmune-like chronic graft-versus-host disease.

"Published figure using CD278 (ICOS) monoclonal antibody (Product # 16-9942-81) in Flow Cytometry"

Authors: Deng R, Hurtz C, Song Q, Yue C, Xiao G, Yu H, Wu X, Muschen M, Forman S, Martin PJ, Zeng D

Species
Human
Mouse

Dilution
Not Cited
Not Cited

Year
2017

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

Functional Assay (1)

Journal of immunology (Baltimore, Md. : 1950)

The number of responding CD4 T cells and the dose of antigen conjointly determine the TH1/TH2 phenotype by modulating B7/CD28 interactions.

"16-9942 was used in Functional assays to show that a greater number of Ag-dependent CD4 T cell interactions are required to generate Th2 than Th1 cells."

Authors: Rudulier CD, McKinstry KK, Al-Yassin GA, Kroeger DR, Bretscher PA

Species
Mouse

Dilution
Not Cited

Year
2014

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.