

CD278 (ICOS) Monoclonal Antibody (C398.4A), Biotin, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse, Rhesus monkey, Rat
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	C398.4A
Conjugate	Biotin
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_467006

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	6 Publications

Product Specific Information

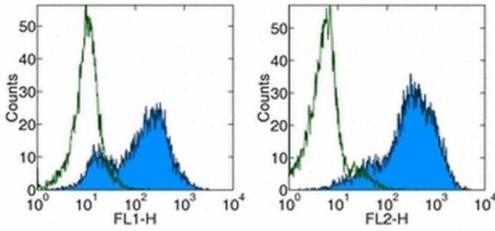
Description: The C398.4A monoclonal antibody reacts with ICOS (Inducible Costimulatory molecule), also known as H4/CRP-1 /ALIM, and cross-reacts with mouse and rat ICOS. ICOS is a T cell specific activation molecule and a third member of the CD28/CTLA-4 family. A dimer of 47-57 kDa, ICOS is expressed 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, is thought to play a protective role in inflammatory autoimmune diseases and be involved in the development of Th2 cells. C398.4A is reported to display strong costimulation of proliferation of T cell clones, intermediate costimulation on activated T cells, and weak costimulation on fresh resting T cells. It is a good costimulator of IL-10 production especially from pre-activated cells that express high level of H4/ICOS. The epitope recognized by C398.4A is different from that bound by the ICOSL (i.e., C398.4A does not block binding of ICOSL).

Applications Reported: The C398.4A antibody has been reported for use in flow cytometric analysis.

Applications Tested: This C398.4A antibody has been tested by flow cytometric analysis of Con A-stimulated mouse splenocytes. This can be used at less than or equal to 0.125 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.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD278 (ICOS) Monoclonal Antibody (C398.4A), Biotin, eBioscience™



CD278 (ICOS) Antibody (13-9949-82) in Flow

Staining of Con A-stimulated mouse splenocytes with Anti-Mouse/Rat CD278 (ICOS) FITC (left) and PE (right). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

[View more figures on thermofisher.com](#)

6 References

Flow Cytometry (6)

Theranostics

HSF1 promotes CD69⁺ Treg differentiation to inhibit colitis progression.

"Published figure using CD278 (ICOS) monoclonal antibody (Product # 13-9949-82) in Flow Cytometry"

Authors: Yu L,Zhou B,Zhu Y,Li L,Zhong Y,Zhu L,Wang H,Chen H,Xu J,Guo T,Feng L,Wang X,Cai Z,Wang J,Jin H

Year
2023

Frontiers in immunology

TRAF6 controls T cell homeostasis by maintaining the equilibrium of MALT1 scaffolding and protease functions.

"Published figure using CD278 (ICOS) monoclonal antibody (Product # 13-9949-82) in Flow Cytometry"

Authors: O'Neill TJ,Gewies A,Seeholzer T,Krappmann D

Year
2023

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

More applications with references on thermofisher.com

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