

PE/Cyanine7 anti-human/mouse/rat CD278 (ICOS) Recombinant Antibody

Catalog# / Size	395205 / 25 µg 395206 / 100 µg
Clone	QA17A11
Regulatory Status	RUO
Other Names	Inducible Costimulator, AILIM, CVID1, CRP1
Isotype	Human IgG4, κ
Description	CD278, also known as ICOS, is a type I transmembrane protein, member of the CD28/CTLA-4 family, present in the cell surface as a homodimer of 47-57 kD. ICOS is expressed in activated T cells where it has a pivotal role in T cell activation, proliferation and Th1/Th2 differentiation and the antibody response; its ligand is CD275.

Product Details

Verified Reactivity	Human
Antibody Type	Recombinant
Host Species	Human
Immunogen	Mouse T cell clone D10.G4.1
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)

Antigen Details

Structure	Type I transmembrane protein, member of the CD28/CTLA-4 family, homodimer of 47-57 kD.
Distribution	Activated T cells
Function	Pivotal role in T cell activation, proliferation and Th1/Th2 differentiation; required for humoral immune response.
Ligand/Receptor	B7-H2 (ICOS-L, CD275)
Cell Type	T cells, Tregs
Biology Area	Costimulatory Molecules, Immunology

Molecular Family

CD Molecules

Antigen References

1. Tahiliani V, *et al.* 2017. *J Immunol.* 198:218
2. Pedros C, *et al.* 2016. *Nat Immunol.* 17:1005
3. Maazi H, *et al.* 2015. *Immunity.* 42:538
4. Guedan S, *et al.* 2014. *Blood.* 124:1070
5. Weber JP, *et al.* 2015. *J Exp Med.* 212:217

Gene ID

[29851](#)

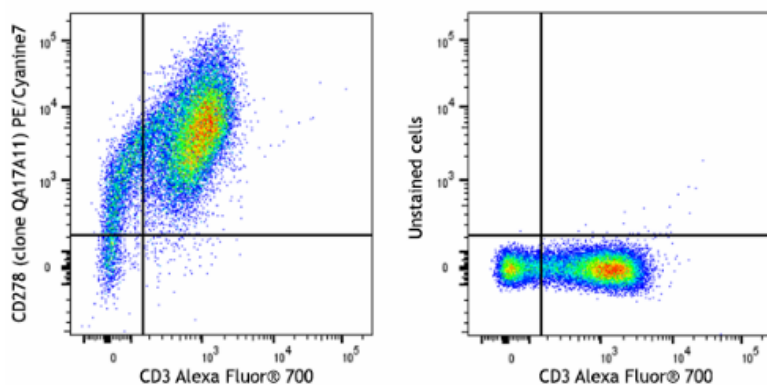
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

PE/Cyanine7 anti-human/mouse/rat CD278 (ICOS) Recombinant Antibody, Ultra-LEAF™ Purified anti-human/mouse/rat CD278 (ICOS) Recombinant Antibody

Product Data



PHA-stimulated (3 days) human peripheral blood lymphocytes were stained with anti-human CD3 (clone UCHT1) Alexa Fluor® 700 and anti-human/mouse/rat CD278 (ICOS) recombinant (clone QA17A11) PE/Cyanine7 (left) or stained with anti-human CD3 (clone UCHT1) Alexa Fluor® 700 only (right).

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8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587