

MOUSE anti-HUMAN CD278 (ICOS)

Publication No. MAN0006808

Rev. 1.01

Store at 2° to 8°C

Catalog No.	Form	Amount	Excitation	Peak Emission
A14754	FITC	25 tests	488 nm	519 nm
A14767	PE	25 tests	496 nm	578 nm
A14773	APC	25 tests	650 nm	660 nm
A14783	PE-Cy [®] 7	25 tests	488 nm	767 nm

Product Description

The Mouse anti-Human CD278 (ICOS) Monoclonal Antibody (mAb) reacts with human CD278, a T cell specific activation molecule and a member of the CD28/CTLA-4 family. Human CD278 is composed of 27 kDa and 29 kDa chains. CD278 on activated T cells has potent co-stimulatory activity for T cell activation, and is required for humoral immune responses (particularly for memory B cell and plasma cell generation). The CD278 ligand, B7h/B7RP-1 is expressed on activated antigen presenting cells, and on a number of inflamed peripheral tissues.

Product Specifications

Clonality:	Monoclonal
Host/Class:	Mouse IgG
Reactivity:	Human CD278 (ICOS)
Alternate Names:	ICOS (Inducible co-stimulatory molecule), H4, CRP-1, AILIM
Apparent MW:	55–60 kDa
Sequence Identity:	Human
Clone/PAD:	ISA-3
Isotype:	IgG ₁
Lot:	See product label

Product Applications

Applications reported for the Mouse anti-Human CD278 (ICOS) mAb include flow cytometry.

Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

Storage and Handling

Store reagents at 2° to 8°C. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted. Cells should be analyzed within 18 hours of staining for best results.

Avoid light exposure with fluorochrome-conjugated antibodies. Use dim light during handling, incubation with cells, and prior to analysis.

Storage Buffer

An aqueous buffer with 0.09% sodium azide, which may contain carrier protein/stabilizer.

Caution: Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.

For research use only. Not for human or animal therapeutic or diagnostic use.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@lifetech.com

Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit www.lifetechnologies.com/support.

Related Products

Product Name	Quantity	Catalog no.
AbC™ Anti-Mouse Bead Kit	1 kit	A10344
AbC™ anti-Rat/Hamster Bead Kit	1 kit	A10389
Protein A Agarose	5 mL	15918-014
Recombinant Protein G (rProtein G) Agarose	5 mL	15920-010

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

Limited Product Warranty

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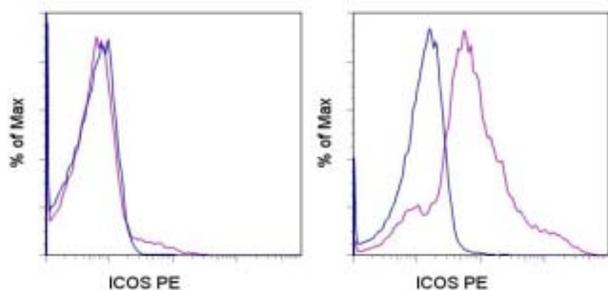


Figure 1 CD278 (ICOS) expression on human peripheral blood cells.

Staining of 3-day unstimulated (left) and 3-day anti-CD3/CD28-stimulated (right) human peripheral blood cells with a mouse IgG1 K-PE isotype control (blue histogram) or Mouse anti-Human CD278 (ICOS)-PE Monoclonal Antibody (Cat. no. A14767) (purple histogram). Cells in the lymphocytes gate were used for analysis.

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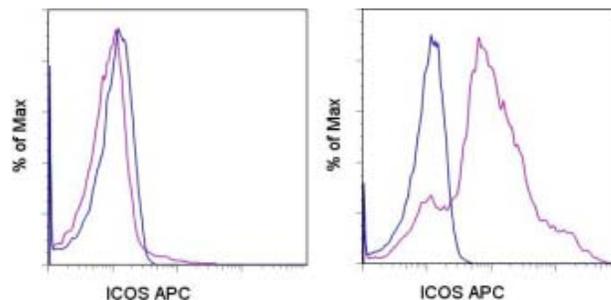


Figure 2 CD278 (ICOS) expression on human peripheral blood cells.

Staining of 3-day unstimulated (left) or 3-day anti-CD3/CD28-stimulated human peripheral blood cells with a mouse IgG1 K-APC isotype control (blue histogram) or Mouse anti-Human CD278 (ICOS)-APC Monoclonal Antibody (Cat. no. A14773) (purple histogram). Cells in the lymphocyte gate were used for analysis.

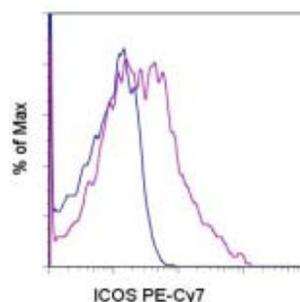


Figure 3 CD278 (ICOS) expression on human peripheral blood cells.

Staining of normal human peripheral blood cells either unstimulated (blue histogram) or stimulated for 3 days with anti-CD3/CD28 (purple histogram) with Mouse anti-Human CD278 (ICOS)-PE-Cy[®]7 Monoclonal Antibody (Cat. no. A14783). Total viable cells were used for analysis.

Note: All flow cytometric data shown may not necessarily have been generated using the enclosed lot of reagent. For this reason, and due to differences in flow cytometers and cytometer settings, results may vary from those illustrated above. It is suggested that investigators titrate reagents to determine optimal conditions for use in their systems.

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