molecular probes by life technologies

RAT anti-MOUSE CD24

Publication No. MAN0006745 **Rev.** 1.00

Store at 2° to 8°C

Catalog No.	Form	Amount	Excitation	Peak Emission
A14790	PerCP-Cy®5.5	0.125 mL (25 µg)	482 nm	695 nm
A14776	PE-Cy® 7	0.125 mL (25 µg)	488 nm	767 nm

Product Description

The Rat anti-Mouse CD24 Monoclonal Antibody (mAb) reacts with the mouse CD24 molecule. CD24 is anchored in the plasma membrane through a phosphatidylinositol linkage, and is expressed by erythrocytes, thymocytes, peripheral lymphocytes, and cells of myeloid lineage. Variable glycosylation of CD24 results in heterogeneity of molecular mass on cells of different lineages, and subtle differences exist in staining level on different lymphocyte populations. The expression of CD24 has been used to resolve stages of B lymphopoiesis in mouse bone marrow.

Product Specifications

Clonality: Monoclonal
Host/Class: Rat IgG
Reactivity: Mouse CD24
Alternate Names: HSA (Heat Stable Antigen)
Apparent MW: 35–50 kDa
Sequence Identity: Mouse
Clone/PAD: M1/69
Isotype: IgG_{2b}
Lot: See product label

Product Applications

Applications reported for the Rat anti-Mouse CD24 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
REF	Catalogue Number	LOT	Batch code
RUO	Research Use Only	IVD	*In vitro* diagnostic medical device
	Use by		Temperature limitation
	Manufacturer	EC REP	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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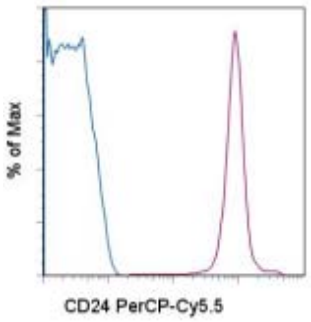

Figure 1 CD24 expression on mouse splenocytes.

Staining of C57BL/6 thymocytes with 0.015 µg of a rat IgG2b K-PerCP-Cy®5.5 isotype control (blue histogram) or 0.015 µg of Rat anti-Mouse CD24-PerCP-Cy®5.5 Monoclonal Antibody (Cat. no. A14790) (purple histogram). Total viable cells were used for analysis.

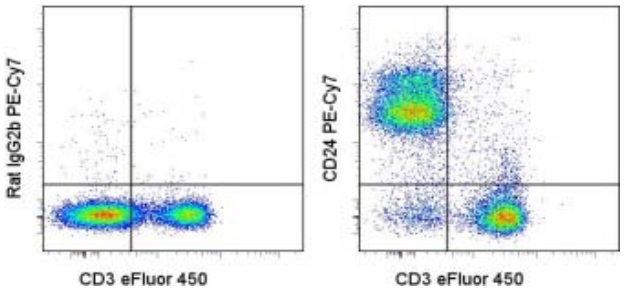

Figure 2 Two-color analysis of CD24 expression on mouse splenocytes.

Staining of C57Bl/6 splenocytes with an anti-mouse CD3-eFluor® 450 antibody and 0.06 µg of a rat IgG1 K-PE-Cy®7 isotype control (left), or 0.06 µg of Rat anti-Mouse CD24-PE-Cy®7 Monoclonal Antibody (Cat. no. A14776) (right). Cells in the lymphocyte gate 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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