molecular probes by life technologies

CD11b/Mac-1a Rat Anti-Mouse Monoclonal Antibody (clone 3A33), APC-Cy®7 Conjugate

Store at 2°C to 8°C

Pub. No. MAN0007977 **Rev.** 1.00

Catalog No.	Form	Amount	Excitation	Peak Emission
A15389	APC-Cy®7	0.1 mg	600–650 nm	767 nm

Product Description

The CD11b antigen (integrin αM subunit), in association with CD18 (integrin β2 subunit) makes up Mac-1 (macrophage-1 antigen), which mediates adhesion to C3bi and ICAM-1 (CD54).[2–6] Mac-1 is expressed at varying levels on granulocytes, macrophages, dendritic cells, NK cells, and B-1 cells in the peritoneal and pleural cavities.[2, 7–10] In addition to its role in binding C3bi on opsonized targets and mediation of the subsequent ingestion process,[4, 11] Mac-1 is important as an adhesion molecule in the transendothelial migration of monocytes and neutrophils.[12]

Product Specifications

Clonality: Monoclonal

Host/Class: Rat (Lewis) IgG

Reactivity: Mouse Mac-1 (αM subunit)

Immunogen: Peritoneal macrophages from C57 B1/6 x DBA/2 F1 hybrid mice1

Alternate Names: Complement receptor 3 (CR3)

Apparent MW: 170 kDa

Sequence Identity: Mouse

Clone/PAD: 3A33

Isotype: $IgG_{2a\kappa}$

Lot: See product label

Product Applications

Applications reported for the CD11b/Mac-1a Rat Anti-Mouse mAb include flow cytometry.[1]

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

Storage and Handling

Store reagents at 2°C 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.

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on the Certificate of Analysis.

Storage Buffer

Phosphate buffered saline (PBS) with 0.1% sodium azide.

CAUTION! Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at **www.lifetechnologies.com/support**.

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

References

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Product Documentation

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

Limited Product Warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at **www.lifetechnologies.com/termsandconditions**. If you have any questions, please contact Life Technologies at **www.lifetechnologies.com/support**.

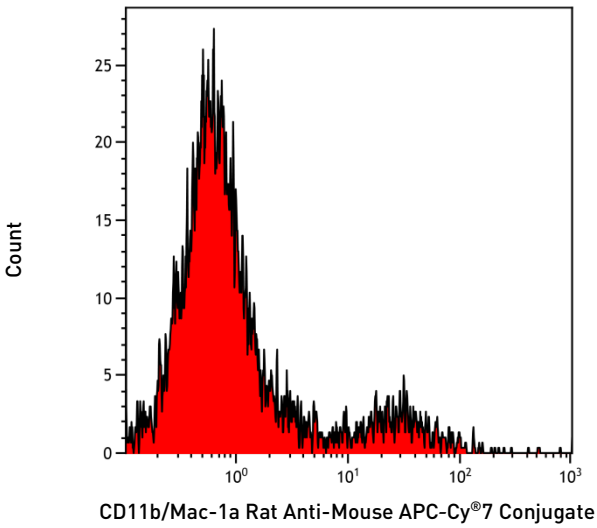

Figure 1 Immunofluorescent staining of BALB/c splenocytes labelled with CD11b/Mac-1a Rat Anti-Mouse Monoclonal Antibody APC-Cy®7 Conjugate (Cat. no. A15389).

BALB/c splenocytes were incubated with CD11b/Mac-1a Rat Anti-Mouse Monoclonal Antibody APC-Cy®7 Conjugate (0.1 µg/10^6 cells). Lymphocytes and monocytes were gated and analyzed by flow cytometry.

Related Products

Product Name	Quantity	Cat. No.
AbC™ Anti-Mouse Bead Kit	1 kit	A10344
AbC™ Anti-Rat/Hamster Bead Kit	1 kit	A10389
FIX & PERM® Reagents (200 tests)	1 kit	GAS004
LIVE/DEAD® Fixable Dead Cell Stain Kits		
Blue (UV excitation)	1 kit (200 assays)	L23105
Violet (405 nm excitation)		L34955
Yellow (405 nm excitation)		L34959
Red (488 nm excitation)		L23102
Near-IR (633/635 nm excitation)		L10119

Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer	REF	Catalog number	LOT	Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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14 April 2013