

## CD11b/Mac-1a Rat Anti-Mouse Monoclonal Antibody (clone 3A33), APC-Cy<sup>®</sup>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 <sup>®</sup> 7	0.1 mg	600–650 nm	767 nm

### Product Description

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

### Product Specifications

<b>Clonality:</b>	Monoclonal
<b>Host/Class:</b>	Rat (Lewis) IgG
<b>Reactivity:</b>	Mouse Mac-1 ( $\alpha$ M subunit)
<b>Immunogen:</b>	Peritoneal macrophages from C57 B1/6 x DBA/2 F1 hybrid mice <sup>1</sup>
<b>Alternate Names:</b>	Complement receptor 3 (CR3)
<b>Apparent MW:</b>	170 kDa
<b>Sequence Identity:</b>	Mouse
<b>Clone/PAD:</b>	3A33
<b>Isotype:</b>	IgG <sub>2a</sub> $\kappa$
<b>Lot:</b>	See product label

### Product Applications

Applications reported for the CD11b/Mac-1a Rat Anti-Mouse mAb include flow cytometry.<sup>1</sup>

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](http://www.lifetechnologies.com/support).

## References

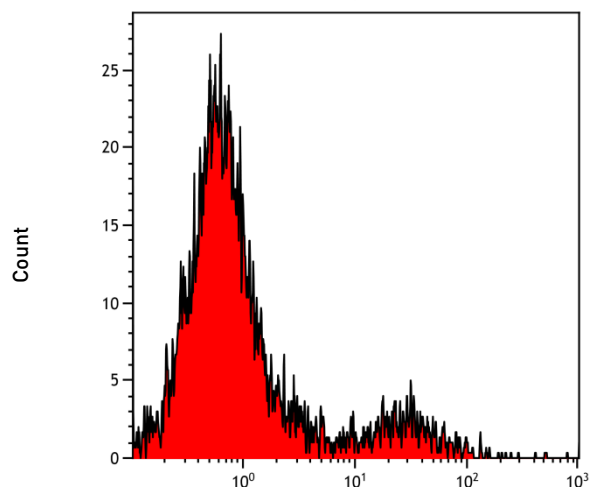
1. Martin, A., R. Le Corre, P. Pellen, D. Bourel, G. Merdrignac, B. Genetet, and L. Toujas. 1986. *Tissue Antigens* 28:15.
2. Springer, T., G. Galfre, D.S. Secher, and C. Milstein. 1979. *Eur. J. Immunol.* 9:301.
3. Springer, T.A., D. Davignon, M.-K. Ho, K. Kurzinger, E. Martz, and F. Sanchez-Madrid. 1982. *Immunol. Rev.* 68:171.
4. Beller, D.I., T.A. Springer, R.D. Schreiber. 1982. *J. Exp. Med.* 156:1000.
5. Sanchez-Madrid, F., P. Simon, S. Thompson, and T.A. Springer. 1983. *J. Exp. Med.* 158:586.
6. Lub, M., Y. van Kooyk, and C.J. Figdor. 1996. *J. Leukoc. Biol.* 59:648.
7. Kantor, A.B., A. M. Stall, S. Adams, L.A. Herzenberg, and L.A. Herzenberg. 1992. *Proc. Natl. Acad. Sci. USA* 89:3320.
8. Ault, K.A., and T.A. Springer. 1981. *J. Immunol.* 126:359.
9. Vremec, D., M. Zorbas, R. Scollay, D.J. Saunders, C.F. Ardavin, L. Wu, and K. Shortman. 1992. *J. Exp. Med.* 176:47.
10. Leenen, P.J. M., M.F.T.R. de Bruijn, J.S.A. Voerman, P.A. Campbell, and W. van Ewijk. 1994. *J. Immunol. Meth.* 174:5.
11. Gresham, H.D., et al. 1991. *J. Clin. Invest.* 88:588.
12. Springer, T.A. 1994. *Cell* 76:310.

## Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit [www.lifetechnologies.com/support](http://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](http://www.lifetechnologies.com/termsandconditions). If you have any questions, please contact Life Technologies at [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).



CD11b/Mac-1a Rat Anti-Mouse APC-Cy7 Conjugate

**Figure 1** Immunofluorescent staining of BALB/c splenocytes labelled with CD11b/Mac-1a Rat Anti-Mouse Monoclonal Antibody APC-Cy7 Conjugate (Cat. no. A15389).

BALB/c splenocytes were incubated with CD11b/Mac-1a Rat Anti-Mouse Monoclonal Antibody APC-Cy7 Conjugate (0.1 µg/10<sup>6</sup> 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
<b>LIVE/DEAD® Fixable Dead Cell Stain Kits</b>		
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		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

## Limited Use Label License No. 384:

Notice to Purchaser: THIS MATERIAL IS SUBJECT TO PROPRIETARY RIGHTS OF AMERSHAM BIOSCIENCES CORP AND CARNEGIE MELLON UNIVERSITY AND MADE AND SOLD UNDER LICENSE FROM AMERSHAM BIOSCIENCES CORP. THIS PRODUCT IS LICENSED FOR SALE FOR RESEARCH ONLY. IT IS NOT LICENSED FOR ANY OTHER USE. THERE IS NO IMPLIED LICENSE HEREUNDER FOR ANY COMMERCIAL USE. COMMERCIAL USE shall include: 1. sale, lease, license or other transfer of the material or any material derived or produced from it; 2. sale, lease, license or other grant of rights to use this Material or any material derived or produced from it; 3. use of this material to perform services for a fee for third parties, including contract research and drug screening. IF YOU REQUIRE A COMMERCIAL LICENSE TO USE THIS MATERIAL AND DO NOT HAVE ONE RETURN THIS MATERIAL, UNOPENED TO LIFE TECHNOLOGIES AND ANY MONEY PAID FOR THE MATERIAL WILL BE REFUNDED.

**DISCLAIMER:** LIFE TECHNOLOGIES AND/OR ITS AFFILIATE(S) DISCLAIM ALL WARRANTIES WITH RESPECT TO THIS DOCUMENT, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THOSE OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. TO THE EXTENT ALLOWED BY LAW, IN NO EVENT SHALL LIFE TECHNOLOGIES AND/OR ITS AFFILIATE(S) BE LIABLE, WHETHER IN CONTRACT, TORT, WARRANTY, OR UNDER ANY STATUTE OR ON ANY OTHER BASIS FOR SPECIAL, INCIDENTAL, INDIRECT, PUNITIVE, MULTIPLE OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THIS DOCUMENT, INCLUDING BUT NOT LIMITED TO THE USE THEREOF.

©2013 Life Technologies Corporation. All rights reserved. The trademarks mentioned herein are the property of Life Technologies Corporation and/or its affiliates or their respective owners. Cy is a registered trademark of GE/Amersham Biosciences.

For support visit [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support) or email [techsupport@lifetech.com](mailto:techsupport@lifetech.com)

[www.lifetechnologies.com](http://www.lifetechnologies.com)

14 April 2013

**life**  
technologies™