

RAT anti-MOUSE F4/80

Publication Part No. L11552

MAN0005169

Rev. 2.00

Store at 2° to 8°C

Catalog No.	Form	Amount	Excitation	Peak Emission	Matching Isotype Control
MF48000	Purified	200 µg	—	—	Rat IgG _{2a} Purified (Cat. no. R2a00)
MF48015	Biotin	1.0 mL	—	—	Rat IgG _{2a} Biotin (Cat. no. R2a15)
MF48015-3		3.0 mL			
MF48028	Pacific Blue™	1.0 mL	405 nm	455 nm	Rat IgG _{2a} Pacific Blue™ (Cat. no. R2a28)
MF48020	Alexa Fluor® 488	1.0 mL	488 nm	519 nm	Rat IgG _{2a} Alexa Fluor® 488 (Cat. no. R2a20)
MF48030	Pacific Orange™	1.0 mL	405 nm	551 nm	Rat IgG _{2a} Pacific Orange™ (Cat. no. R2a30)
MF48004	R-PE	0.5 mL	496 nm	578 nm	Rat IgG _{2a} R-PE (Cat. no. R2a04)
MF48004-3		3.0 mL			
MF48017	PE-TR†	0.5 mL	488 nm	615 nm	Rat IgG _{2a} PE-TR (Cat. no. R2a17)
MF48005	APC	0.5 mL	650 nm	660 nm	Rat IgG _{2a} APC (Cat. no. R2a05)
MF48021	Alexa Fluor® 647	1.0 mL	650 nm	668 nm	Rat IgG _{2a} Alexa Fluor® 647 (Cat. no. R2a21)
MF48006	TC‡	0.5 mL	488 nm	670 nm	Rat IgG _{2a} TC (Cat. no. R2a06)
MF48018	PE-Cy®5.5	0.5 mL	488 nm	694 nm	Rat IgG _{2a} PE-Cy5.5 (Cat. no. R2a18)
A14800	PerCP-Cy®5.5	0.125 mL [25 µg]	482 nm	695 nm	—
MF48024	PE-Alexa Fluor® 700	1.0 mL	488 nm	723 nm	Rat IgG _{2a} PE-Alexa Fluor® 700 (Cat. no. R2a24)
MF48027	APC-Alexa Fluor® 750	1.0 mL	650 nm	775 nm	Rat IgG _{2a} APC-Alexa Fluor® 750 (Cat. no. R2a27)

† TR, Texas Red®

‡ TC, TRI-COLOR®

Product Description

The Rat anti-Mouse F4/80 Monoclonal Antibody (mAb) reacts with mouse F4/80 which is a macrophage-restricted cell surface glycoprotein^{1,3}.

Product Specifications

Clonality:	Monoclonal
Host/Class:	Rat IgG
Reactivity:	Mouse F4/80
Predicted Reactivity:	Mouse, Human
Sequence Identity:	Mouse
Clone/PAD:	BM8
Isotype:	IgG _{2a}
Lot:	See product label

Product Applications

Applications reported for the Rat anti-Mouse F4/80 mAb include flow cytometry, immunohistochemistry (acetone-fixed, frozen sections), and immunohistochemistry (formalin-fixed, paraffin embedded sections)¹⁻⁴.

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.

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

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Storage Buffer

Phosphate Buffered Saline (PBS) with 0.1% sodium azide. Conjugated products are also formulated with BSA and may contain sucrose as an additional stabilizing agent. PerCP-Cy[®]5.5 conjugates contain an aqueous buffer with 0.09% sodium azide, and 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.

References

1. Malorny U., E. Michels, and C. Sorg. 1986. A monoclonal antibody against an antigen present on mouse macrophages and absent from monocytes. *Cell Tissue Res.* 243(2):421-428.
2. Rosmalen J. G., T. Martin, C. Dobbs, J. S. Voerman, H. A. Drexhage, K. Haskins, and P. J. Leenen. 2000. Subsets of macrophages and dendritic cells in nonobese diabetic mouse pancreatic inflammatory infiltrates: correlation with the development of diabetes. *Lab Invest.* 80(1):23-30.
3. Schaller E., A. J. Macfarlane, R. A. Rupec, S. Gordon, A. J. McKnight, and K. Pfeffer. 2002. Inactivation of the F4/80 glycoprotein in the mouse germ line. *Mol. Cell. Biol.* 22(22):8035-8043.
4. Personal communication from originator of BM8 mAb.

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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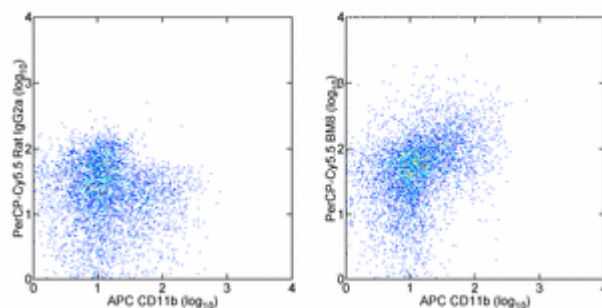


Figure 1 Two-color analysis of F4/80 expression on mouse bone marrow cells.

Staining of C57BL/6 bone marrow cells with an anti-mouse CD11b-APC antibody and 0.25 µg of a rat IgG2a K-PerCP-Cy[®]5.5 isotype control (left) or 0.25 µg of Rat anti-Mouse F4/80-PerCP-Cy[®]5.5 Monoclonal Antibody (Cat. no. A14800) (right). Cells in the large forward scatter population 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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15 July 2012

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