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PRODUCT INSERT

CE

MONOCLONAL ANTIBODIES TO THE HUMAN CD11b ANTIGEN

Product Code	Form	Volume	Antibody*	Tests	Excitation (nm)	Peak Emission (nm)
CD11b00	Purified	0.5 ml	100 µg		N/A	N/A
CD11b01	FITC	0.5 ml		100 min.	488	525
CD11b01-4	FITC	2.0 ml		400 min.		
CD11b04	R-PE	0.5 ml		100 min.	488	575
CD11b04-4	R-PE	2.0 ml		400 min.		
CD11b06	TC†	0.5 ml		100 min.	488	670
CD11b05	APC	0.5 ml		100 min.	600-650	660
CD11b29	Alexa Fluor® 700	0.5 ml		100 min.	630-702	723

PRODUCT DESCRIPTION

Mouse monoclonal antibody to the human CD11b (Mac-1) antigen

Clone: VIM12

Isotype: Mouse IgG1

Lot No.: See label **Expiration:** See label

Buffer: Phosphate buffered saline (PBS)

Preservative: 0.1% ***sodium azide***. Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Solutions containing sodium azide should be disposed of properly.

Stabilizer: For conjugated products only, a highly purified grade of BSA has been added as a stabilizing agent.

STORAGE & HANDLING

Store reagents at 2-8°C. For fluorochrome-conjugated antibodies only, light exposure should be avoided. Use dim light during handling, incubation with cells and prior to analysis. It is recommended that cells be analyzed within 18 hours of staining. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted.

PRODUCT CHARACTERIZATION

Antigen Specificity: According to the literature this antibody recognizes the CD11b antigen[1]. CD11b associates with CD18 to form the heterodimeric complex known as Mac-1. This complex serves as a receptor for the iC3b component. Mac-1 also serves as an adhesion molecule for intracellular adhesion molecule-1, also known as CD54. Mac-1 is expressed on cells of the myeloid lineage as well as natural killer cells.

Leukocyte Workshop Status: II, III and IV Leukocyte Typing

PRODUCT QUALITY CONTROL

Each lot is tested by flow cytometry using human peripheral blood leukocytes (PBL). This testing was performed using 5 µl of antibody per 1 x 10^6 cells in a 100 µl staining volume. Because results may vary, it is suggested that each investigator determine the optimal amount of antibody to be used for each application.

REFERENCES:

1. Rainherz, E. L., B. F. Haynes, L. M. Nadler, and I. O. Bernstein eds. 1986. Leukocyte Typing II. Springer-Velag Inc., New York.
2. Diamond, M. S., D. E. Staunton, S. D. Marin, and T. A. Springer. 1991. *Cell* 65: 961.
3. Maurer, D., G. Fischer, O. Majdic, W. Hinterberger, and W. Knapp. *Ann. Hematol*. 62: 135.
4. Diamond, M. S., J. Garcia-Aguilar, J. K. Bickford, A. L. Corbl, and T. A. Springer. 1993. *J. Cell. Biol*. 120: 1031.
5. Bohuslav, J., V. Horejsi, C. Hansmann, J. Stockl, U. H. Weidle, O. Majdic, I. Bartke, W. Knapp, and H. Stockinger. 1995. *J. Exp. Med*. 181: 1381.
6. Stockl, J., O. Majdic, W. F. Pickl, A. Rosenkranz, E. Prager, E. Gschwantler, and W. Knapp. 1995. *J. Immunol*. 154: 5453.
7. Thornton, B. P., V. Vetvicka, M. Pitman, R. C. Goldman, and G. D. Ross. 1996. *J. Immunol*. 156: 1235.

* Antibody value assigned is based on the Optical Density at 280 nm.

TR, Texas Red®

† TC, TRI-COLOR®, PE-Cy5

The efficiency of energy transfer in tandem dyes can be significantly decreased by exposure to visible light. We recommend that longer wavelength fluorochrome conjugates, e.g. PE-Cy7, PE-Alexa Fluor® 700, be protected from light during staining and while awaiting analysis, e.g. cover with aluminum foil.

The Texas Red®, Alexa Fluor® and Pacific Blue® dye conjugates in this product are sold under license from Molecular Probes, Inc., for research use only or as analyte specific reagents, except for use in combination with microarrays or high content screening, and are covered by pending and issued patents.

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ANALYTE SPECIFIC REAGENT. ANALYTICAL AND PERFORMANCE CHARACTERISTICS ARE NOT ESTABLISHED.

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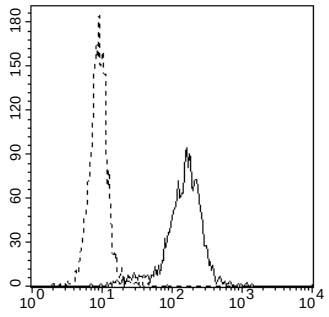
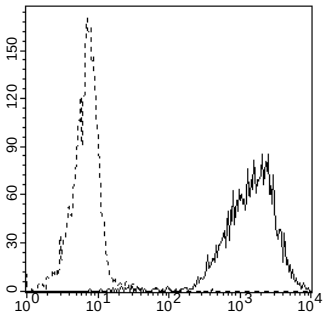
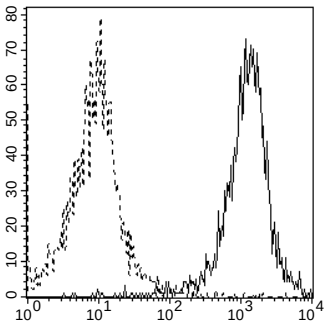


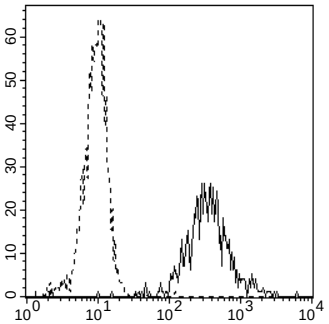
Human CD11b FITC



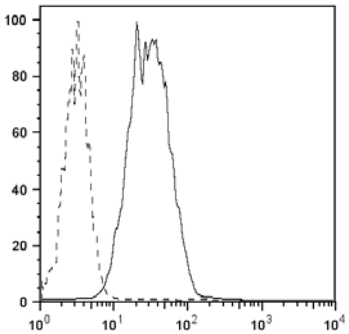
Human CD11b R-PE



Human CD11b APC



Human CD11b TC



Human CD11b Alexa Fluor® 700

Log fluorescence intensity profiles of human peripheral blood granulocytes and lymphocytes analyzed on a FACSCalibur™, FACScan™, or FACSVantage™, or BD™ LSRII flow cytometer, and analyzed using CellQuest™ software, BD Biosciences, San Jose, CA or FlowJo© software, Treestar, Inc. (www.flowjo.com).

Negative control profiles represent unstained cells.

Note: 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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