

Technical Data Sheet

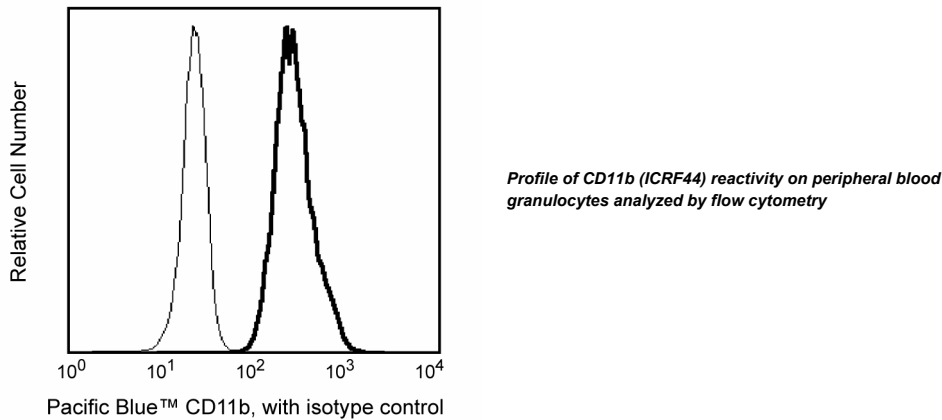
Pacific Blue™ Mouse Anti-Human CD11b/Mac-1

Product Information

Material Number:	558123
Alternate Name:	Mac-1 $\alpha$ , integrin $\alpha$ M subunit, CR3 $\alpha$ chain
Size:	0.1 mg
Concentration:	0.2 mg/ml
Clone:	ICRF44 (also known as 44)
Isotype:	Mouse IgG1, $\kappa$
Reactivity:	QC Testing: Human
Workshop:	IV M047
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The ICRF44 monoclonal antibody reacts with CD11b, the 165-kDa adhesion glycoprotein that associates with the 95-kDa integrin  $\beta$ 2 (CD18) to form the CD11b/CD18 complex, also known as Mac-1 or CR3. CD11b is expressed on activated lymphocytes, monocytes, granulocytes, and a subset of NK cells. CD11b functions in cell-cell and cell-substrate interactions and is a receptor for iC3b, CD54 (ICAM-1), CD102 (ICAM-2) and CD50 (ICAM-3). This antibody significantly inhibits polymorphonuclear leukocyte aggregation in response to fMLP.



Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody is conjugated to Pacific Blue™ under optimum conditions, and unreacted Pacific Blue™ was removed. Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
558120	Pacific Blue™ Mouse IgG1, $\kappa$ Isotype Control	0.1 mg	MOPC-21

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.

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2. Please refer to [www.bdbiosciences.com/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/protocols) for technical protocols.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at [www.bdbiosciences.com/pharming/en/colors](http://www.bdbiosciences.com/pharming/en/colors).
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. Pacific Blue™ has a maximum absorption of 416 nm and maximum emission of 451 nm. Before staining with this reagent, please confirm that your flow cytometer is capable of exciting the fluorochrome and discriminating the resulting fluorescence.
6. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.

## References

Barclay NA, Brown MH, Birkeland ML, et al, ed. *The Leukocyte Antigen FactsBook*. San Diego, CA: Academic Press; 1997.(Biology)  
Knapp W, Dorken B, Rieber EP, et al, ed. *Leucocyte Typing IV*. New York: Oxford University Press; 1989.(Clone-specific)