

## Technical Data Sheet

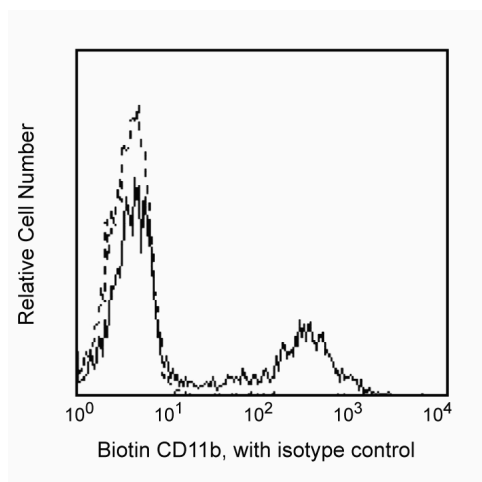
**Biotin Mouse Anti-Human CD11b/Mac-1****Product Information**

<b>Material Number:</b>	555387
<b>Alternate Name:</b>	Mac-1, CR3
<b>Size:</b>	100 tests
<b>Vol. per Test:</b>	20 µl
<b>Clone:</b>	ICRF44
<b>Isotype:</b>	Mouse IgG1, κ
<b>Reactivity:</b>	QC Testing: Human
<b>Workshop:</b>	IV M047
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

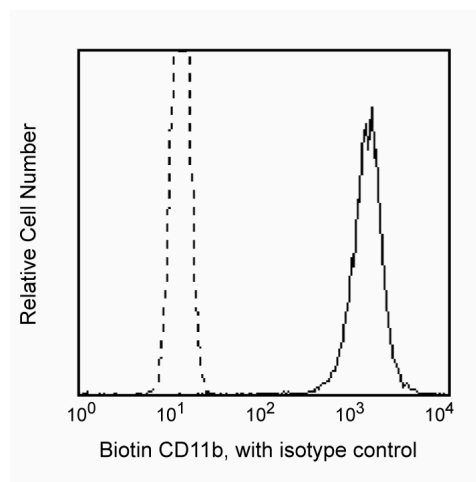
**Description**

Reacts with the 165 kDa adhesion glycoprotein (Mac-1, integrin αM subunit) which associates with the 95 kDa integrin β2 (CD18) to form the CD11b/CD18 complex. CD11b/Mac-1 is expressed on activated lymphocytes, monocytes, granulocytes, and a subset of NK cells. CD11b functions in cell-cell and cell-substrate interactions and as a receptor for iC3b, CD54 (ICAM-1), CD102 (ICAM-2) and CD50 (ICAM-3). This antibody significantly inhibits PMN aggregation in response to fMLP.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



*Profile of peripheral blood lymphocytes analyzed on a FACScan (BDIS, San Jose, CA)*



*Profile of peripheral blood granulocytes analyzed on a FACScan (BDIS, San Jose, CA)*

**Preparation and Storage**

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin 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

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
554061	Streptavidin PE	0.5 mg	(none)
555747	Biotin Mouse IgG1 $\kappa$ Isotype Control	100 tests	MOPC-21

## Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use  $1 \times 10^6$  cells in a 100- $\mu$ l experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.
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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

## 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, et al, ed. *Leucocyte Typing IV*. New York: Oxford University Press; 1989.(Clone-specific)
- Guesdon JL, Ternynck T, Avrameas S. The use of avidin-biotin interaction in immunoenzymatic techniques. *J Histochem Cytochem*. 1979; 27(8):1131-1139. (Biology)