### **Product Data Sheet**

#### PE/Dazzle™ 594 anti-mouse/human CD11b

Catalog # /  $1106280 / 100 \mu g$ 

Size: 1106275 / 25 µg

Clone: M1/70

Isotype: Rat IgG2b, ĸ

Immunogen: C57BL/10 splenocytes

Reactivity: Human

Preparation: The antibody was purified by affinity

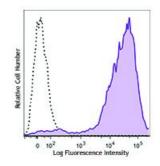
chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and

unconjugated antibody.

Phosphate-buffered solution, pH 7.2, Formulation:

containing 0.09% sodium azide.

0.2 Concentration:



C57BL/6 mouse bone marrow cells were stained with CD11b (clone M1/70) PE/Dazzle<sup>™</sup> 594 (filled histogram). Open histogram represents unstained cells. Data shown was gated on myeloid cell population.

#### **Applications:**

Applications: Flow Cytometry

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.06 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

\* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum

emission of 610 nm.

**Application** Notes: Clone M1/70 has been verified for immunocytochemistry (ICC) and frozen

immunohistochemistry (IHC-F).

Additional reported applications (for relevant formats of this clone) include:

immunoprecipitation<sup>1,4</sup>, in vitro blocking<sup>3,9,12</sup>, depletion<sup>2,8</sup>,

immunofluorescence microscopy  $^{6,7,10}$ , and immunohistochemistry of acetone-fixed frozen sections  $^{5,11-13}$  and paraffin sections  $^{28}$ . The LEAF  $^{\text{m}}$ purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 101231). For in vivo studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 101248) with a lower endotoxin limit than standard LEAF™ purified

antibodies (Endotoxin < 0.01 EU/µg).

## Application References:

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- 13. Iwasaki A and Kelsall BL. 2001. J. Immunol. 166:4884 (IHC, FC)
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- 15. Olver S, et al. 2006. Cancer Research 66:571. (FC)
- 16. Tan SL, et al. 2006. J. Immunol. 176:2872. (FC) PubMed
- 17. Ponomarev ED, et al. 2006. J. Immunol. 176:1402. (FC)
- 18. Dzhagalov I, et al. 2007. Blood 109:1620. (FC)
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- 20. Rasmussen JW, et al. 2006. Infect. Immun.74:6590. PubMed
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- 25. Norian LA, et al. 2009. Cancer Res. 69:3086. (FC) PubMed
- 26. Baumgartner CK, et al. 2010. J. Immunol. 184:573. PubMed
- 27. Charles N, et al. 2010. Nat. Med. 16:701. (FC) PubMed
- 28. Whiteland J, et al. 1995. J. Histochem. Cytochem. 43:313. (IHC)

#### **Description:**

CD11b is a 170 kD glycoprotein also known as  $\alpha M$  integrin, Mac-1  $\alpha$  subunit, Mol, CR3, and Ly-40. CD11b is a member of the integrin family, primarily expressed on granulocytes, monocytes/macrophages, dendritic cells, NK cells, and subsets of T and B cells. CD11b non-covalently associates with CD18 ( $\beta 2$  integrin) to form Mac-1. Mac-1 plays an important role in cell-cell interaction by binding its ligands ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4 (CD242), iC3b, and fibrinogen.

# Antigen References:

- 1. Barclay A, et al. 1997. The Leukocyte Antigen FactsBook Academic Press.
- 2. Springer TA. 1994. Cell 76:301.
- 3. Coxon A, et al. 1996. Immunity 5:653.