

Pacific Blue™ anti-mouse/human CD11b

Catalog # / Size: 1106120 / 100 µg
1106115 / 25 µg

Clone: M1/70

Isotype: Rat IgG2b, κ

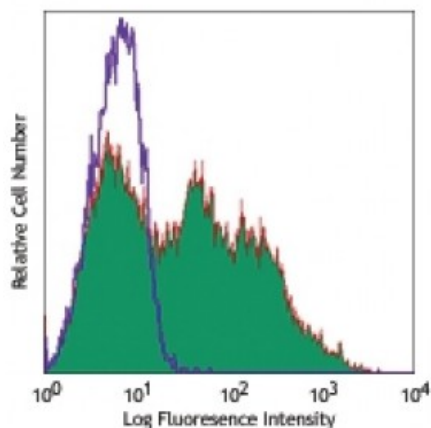
Immunogen: C57BL/10 splenocytes

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with Pacific Blue™ under optimal conditions. The solution is free of unconjugated Pacific Blue™.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5



C57BL/6 mouse bone marrow cells were stained with CD11b (clone M1/70) Pacific Blue™ (filled histogram) or rat IgG2b, κ Pacific Blue™ isotype control (open histogram) (gated on total cells).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. The suggested use of this reagent is ≤ 1.0 microg per 10⁶ cells in 100 microL volume. It is highly recommended that the reagent be titrated for optimal performance for each application.

* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

Application Notes: Additional reported applications (for relevant formats of this clone) include: immunoprecipitation^{1,4}, *in vitro* blocking^{3,9,12}, depletion^{2,8}, immunofluorescence microscopy^{6,7,10}, and immunohistochemistry of acetone-fixed frozen sections^{5,11-13} and paraffin sections²⁸. The LEAF™ 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/microg).

Application References:

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13. Iwasaki A and Kelsall BL. 2001. *J. Immunol.* 166:4884 (IHC, FC)
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24. Guo Y, *et al.* 2008. *Blood* 112:480. [PubMed](#)
25. Norian LA, *et al.* 2009. *Cancer Res.* 69:3086. (FC) [PubMed](#)
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27. Charles N, *et al.* 2010. *Nat. Med.* 16:701. (FC) [PubMed](#)
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30. Ni PP, *et al.* 2014. *J Immunol.* 193:1778. [PubMed](#)
31. Huang A, *et al.* 2014. *Exp Cell Res.* 326:2593. [PubMed](#)
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33. Nacer A, *et al.* 2014. *PLoS Pathog.* 10:1004528. [PubMed](#)
34. Krishnamoorthy N, *et al.* 2015. *J Immunol.* 194:863. [PubMed](#)
35. Watson NB, *et al.* 2015. *J Immunol.* 194:2796.

Description: CD11b is a 170 kD glycoprotein also known as α M integrin, Mac-1 α 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 (β 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.