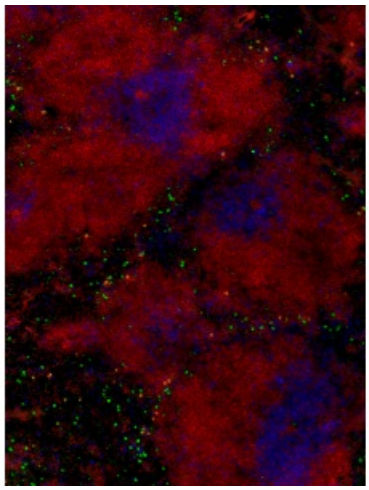
SONY

Product Data Sheet

Alexa Fluor® 488 anti-mouse/human CD11b

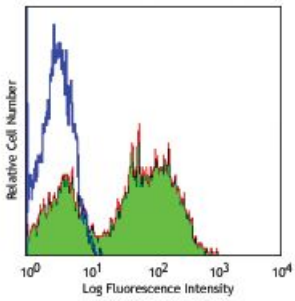
Catalog # / Size:	1106095 / 25 µg 1106085 / 100 µg
Clone:	M1/70
Isotype:	Rat IgG2b, κ
Immunogen:	C57BL/10 splenocytes
Reactivity:	Human, Mouse, Non-human primate, Other
Preparation:	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 488 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	IV T-186
Concentration:	0.5



C57BL/6 mouse frozen spleen section was fixed with 4% paraformaldehyde (PFA) for ten minutes at room temperature and blocked with 5% FBS for 30 minutes at room temperature. Then the section was stained with 2.5 µg/ml of CD11b (clone M1/70) Alexa Fluor® 488 (green), and co-stained with 5 µg/ml of CD3 (clone 17A2) Alexa Fluor® 647 (cyan) and 5 µg/ml of CD45R/B220 (clone RA3-6B2) Alexa Fluor® 594 (red) overnight at 4°C. The image was captured with a 10X objective.

Applications:

Applications:	Flow Cytometry, Immunohistochemistry
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 ≤ 0.25 µg per 10^6 cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application. * Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.



C57BL/6 mouse bone marrow cells were stained with CD11b (clone M1/70) Alexa Fluor® 488 (filled histogram) or rat IgG2b Alexa Fluor® 488 isotype control (open histogram) (gated on total cell population).

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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[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 sections[28]. 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/µg).

Application References:

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Description:

CD11b is a 170 kD glycoprotein also known as αM 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 (β2 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.

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Antigen References:
1. Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
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