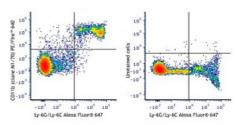
PE/Fire™ 640 anti-mouse/human CD11b

Catalog # / Size:	1106400 / 100 μg 1106395 / 25 μg
Clone:	M1/70
lsotype:	Rat IgG2b, к
Immunogen:	C57BL/10 splenocytes
Reactivity:	Human, Mouse, Non-human primate, Other
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Fire [™] 640 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	750 under optimal conditions.
Concentration:	0.2 mg/mL

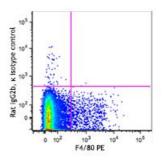


C57BL/6 mouse bone marrow cells were stained with anti-mouse Ly-6G/Ly-6c (Gr-1) Alexa Fluor® 647 and CD11b (clone M1/70) PE/Fire[™] 640 (left) or anti-mouse Ly-6G/Ly-6C (Gr-1) Alexa Fluor® 647 only (right).

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 $\leq 0.25 \ \mu$ g per million cells in 100 μ L volume. It is recommended that the reagent be titrated for optimal performance for each application.

* PE/Fire[™] 640 has a maximum excitation of 566 nm and a maximum emission of 639 nm.



Human paraffin-embedded intestine tissue slices were prepared with a standard protocol of deparaffinization and rehydration. Antigen retrieval was done with Sodium Citrate H.I.E.R. 1X at 95°C for 40 minutes. Tissue was washed with PBS/0.05% Tween 20 twice for five minutes, permeabilized with 0.5% Triton-X 100 for ten minutes and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the tissue was stained with 10 µg/mL of anti-human CD44 (clone IM7) Spark YG[™] 570 (red) at 4°C overnight. Nuclei were counterstained with DAPI (blue). The image was captured with a 10X objective.

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} , <i>in</i> <i>vitro</i> blocking ^{3,9,12} , depletion ^{2,8} , immunofluorescence microscopy ^{6,7,10} , and immunohistochemistry of acetone- fixed frozen sections ^{5,11-13} . For <i>in</i> <i>vivo</i> studies or highly sensitive assays, we recommend Ultra-LEAF ™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) (Cat. No. 101248).
Application References:	 Springer T, et al. 1978. Eur. J. Immunol. 8:539. (IP) Ault K and Springer T. 1981. J. Immunol. 126:359. (Deplete) Springer TA, et al. 1982. Immunol. Rev. 68:171. (Block) Ho MK and Springer TA. 1983. J. Biol. Chem. 258:2766. (IP) Flotte TJ, et al. 1983. Am. J. Pathol. 111:112. (IHC) Noel GJ, et al. 1990. J. Clin. Invest. 85:208. (IF) Allen LA and Aderem A. 1996. J. Exp. Med. 184:627 (IF) D'Amico A and Wu L. 2003. J. Exp. Med. 198:293. (Deplete) Brickson SJ, et al. 2003. Appl Physiol. 95:969. (Block) Clatworthy MR and Smith KG. 2004. J. Exp. Med. 199:717. (IF) Hata H, et al. 2004. J. Clin. Invest. 114:582. (IHC) Zhang Y, et al. 2002. J. Immunol. 168:3088. (IHC) Iwasaki A and Kelsall BL. 2001. J. Immunol. 166:4884 (IHC, FC) Tailleux L. 2003. J. Exp. Med. 197:121. (Block, FC) Olver S, et al. 2006. J. Immunol. 176:2872. (FC) PubMed Ponomarev ED, et al. 2007. Blood 109:1620. (FC) Dzhagalov I, et al. 2007. Nature Immunol. 8:753. Rasmussen JW, et al. 2006. Infect. Immunol. 8:753. Rasmussen JW, et al. 2008. J. Lipid. Res. 49:1894. PubMed Kim DD, et al. 2008. Blood 112:1109. PubMed Kim DD, et al. 2008. Blood 112:1109. PubMed Korian LA, et al. 2009. Cancer Res. 69:3086. (FC) PubMed Korian LA, et al. 2010. Nat. Med. 16:701. (FC) PubMed Bumgartner CK, et al. 2010. J. Immunol. 184:573. PubMed Charles N, et al. 2010. J. Histochem. Cytochem. 43:313. (IHC) Weber GF, et al. 2014. J Exp. Med. 211:1243. PubMed Doni A, et al. 2015. J Immunol. 194:1164. PubMed Price PJ, et al. 2015. J Immunol. 194:1164. PubMed Price PJ, et al. 2015. J Immunol. 35:936. (PG)
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:	 Barclay A, <i>et al.</i> 1997. The Leukocyte Antigen FactsBook Academic Press. Springer TA. 1994. <i>Cell</i> 76:301. Coxon A, <i>et al.</i> 1996. <i>Immunity</i> 5:653.

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