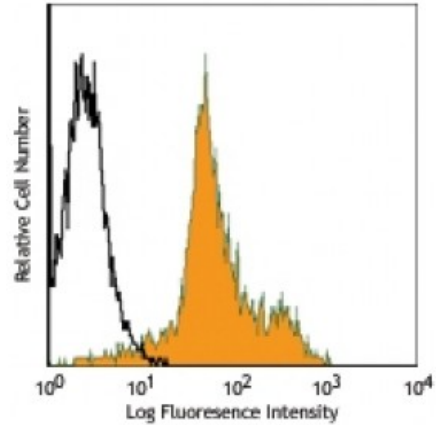


**Alexa Fluor® 488 anti-mouse CD11a**

**Catalog # / Size:** 1105555 / 25 µg  
**Clone:** M17/4  
**Isotype:** Rat IgG2a, κ  
**Immunogen:** C57BL/6 mouse splenic secondary cytotoxic T cells  
**Reactivity:** Mouse  
**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.  
**Concentration:** 0.5



BALB/c mouse splenocytes stained with M17/4 Alexa Fluor® 488

**Applications:**

**Applications:** Immunofluorescence  
**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 microg per 10<sup>6</sup> cells in 100 microL 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.

**Application Notes:** The M17/4 antibody can block CD11a-mediated cellular adhesion. Additional reported applications of this antibody (for the relevant formats) include: immunoprecipitation<sup>1,2</sup>, *in vitro* blocking of cell-cell adhesion<sup>1,2</sup> and FOXP3 expression<sup>5</sup>, and immunohistochemical staining of acetone-fixed frozen sections<sup>3</sup>. The M17/4 antibody does not block the binding of 2D7 antibody (Cat. No. 101002) to CD11a. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 101110). For *in vivo* studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 101118) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/microg).

**Application References:**

1. Sanchez-Madrid F, *et al.* 1982. *Cell Immunol.* 73:1. (IP, Block)
2. Kuhlman P, *et al.* 1991. *J. Immunol.* 146:1773. (IP, Block)
3. Mizgerd JP, *et al.* 1997. *J. Exp. Med.* 186:1357. (IHC)
4. Hailman E and Allen PM. 2005. *J. Immunol.* 175:4847. (FC)
5. Verhagen J and Wraith DC. 2014. *J. Immunol. Methods.* S0022. (Block) [PubMed](#)

**Description:** CD11a is a 180 kD glycoprotein, also known as α<sub>L</sub> integrin, LFA-1 α, Ly-15, or Ly-21. It is a member of the integrin family, primarily expressed on lymphocytes, monocytes/macrophages, and granulocytes. In association with CD18, the CD11a/CD18 complex forms LFA-1. CD11a plays an important role in intercellular adhesion and costimulation by binding its ligands, ICAM-1 (CD54), ICAM-2 (CD102), and ICAM-3 (CD50).

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

- References:**
2. Springer TA. 1994. *Cell* 76:301.
  3. Lub M, *et al.* 1995. *Immunol. Today* 16:479.