SONY

Product Data Sheet

PerCP/Cyanine5.5 anti-mouse CD11a

Catalog # / Size: 1105615 / 25 µg
1105620 / 100 µg

Clone: M17/4

Isotype: Rat IgG2a, κ

Immunogen: C57BL/6 mouse splenic secondary cytotoxic T cells

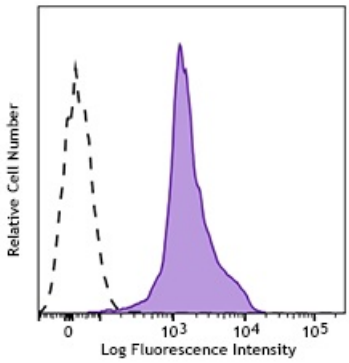
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.

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

Workshop Number: VII 70322

Concentration: 0.2



C57BL/6 mouse splenocytes were stained with CD11a (clone M17/4) PerCP/Cyanine5.5 (filled histogram) or rat IgG2a, κ PerCP/Cyanine5.5 isotype control (open histogram).

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 ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 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[1,2], *in vitro* blocking of cell-cell adhesion[1,2] and FOXP3 expression5, and immunohistochemical staining of acetone-fixed frozen sections3. 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

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Description: CD11a is a 180 kD glycoprotein, also known as α_L 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 References:

1. Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Springer TA. 1994. *Cell* 76:301.
3. Lub M, *et al.* 1995. *Immunol. Today* 16:479.

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