

Product Information

Contents: Affinity Purified anti-mouse CD11a (Integrin α_L , LFA-1 α)

Catalog Number: 14-0111

Sizes: 50 μ g, 100 μ g, 500 μ g

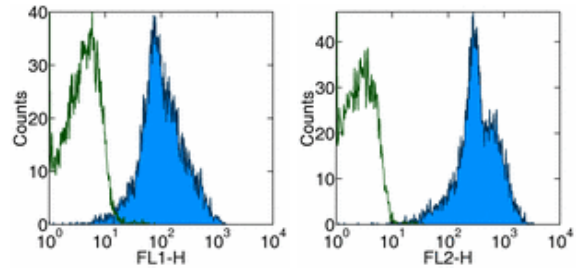
Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃

Storage Conditions: Store at 4°C.

Avoid repeated freeze/thaw cycles.

Clone: M17/4

Isotype: Rat IgG2a, κ



Surface staining of mouse splenocytes with anti-mouse CD11a (M17/4) FITC (left), and PE (right). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-0111	FITC anti-mouse CD11a (Integrin alpha L, LFA-1 alpha)	488	518	FC
12-0111	PE anti-mouse CD11a (Integrin alpha L, LFA-1 alpha)	488	575	FC
13-0111	Biotin anti-mouse CD11a (Integrin alpha L, LFA-1 alpha)	N/A	N/A	FC
14-0111	Affinity Purified anti-mouse CD11a (Integrin alpha L, LFA-1 alpha)	N/A	N/A	FA FC IHC IP
16-0111	Functional Grade* Purified anti-mouse CD11a (Integrin alpha L, LFA-1 alpha)	N/A	N/A	FC

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/ μ g.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

Description

The M17/4 monoclonal antibody reacts with mouse CD11a, the 180 kDa integrin α_L , also known as the lymphocyte function associated antigen-1 (LFA-1) α chain. LFA-1, formed by non-covalent association of CD11a with CD18 (integrin β_2), serves as an important adhesion molecule involved in lymphocyte and granulocyte function. CD54 (ICAM-1), CD102 (ICAM-2), and CD50 (ICAM-3) are ligands for LFA-1. CD11a is expressed by all leukocytes.

Usage

For research use only, not for diagnostic or therapeutic use. The M17/4 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining. M17/4 has also been reported in blocking of CD11a function. (Please use Functional Grade purified M17/4, cat. 16-0111, in functional assays.)

Applications Tested

The M17/4 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. This can be used at less than or equal to 0.5 μ g per million cells in a 100 μ l total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

- Cat. 11-0111 FITC anti-mouse CD11a (Integrin alpha L, LFA-1 alpha) (clone M17/4)
- Cat. 12-0111 PE anti-mouse CD11a (Integrin alpha L, LFA-1 alpha) (clone M17/4)
- Cat. 13-0111 Biotin anti-mouse CD11a (Integrin alpha L, LFA-1 alpha) (clone M17/4)
- Cat. 16-0111 Functional Grade Purified anti-mouse CD11a (Integrin alpha L, LFA-1 alpha) (clone M17/4)
- Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
- Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
- Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)

Cat. 14-4321 Affinity Purified Rat IgG2a Isotype Control
Cat. 11-4811 FITC Anti-Rat IgG
Cat. 13-4813 Biotin Anti-Rat IgG (clone Polyclonal)

References

Sanchez-Madrid, F., P. Simon, et al. 1983. Mapping of antigenic and functional epitopes on the alpha- and beta-subunits of two related mouse glycoproteins involved in cell interactions, LFA-1 and Mac-1. *J Exp Med* 158(2): 586-602.

Sanchez-Madrid, F., D. Davignon, et al. 1982. Antigens involved in mouse cytolytic T-lymphocyte (CTL)-mediated killing: functional screening and topographic relationship. *Cell Immunol* 73(1): 1-11.

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