

# CD11a (LFA-1alpha) Monoclonal Antibody (M17/4), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	M17/4
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_468881

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	10 Publications
Neutralization (Neu)	-	4 Publications
Functional Assay (FN)	Assay-Dependent	3 Publications
Control (Ctrl)	Assay-Dependent	-
Inhibition Assays (IA)	-	1 Publication

## Product Specific Information

**Description:** The M17/4 monoclonal antibody reacts with mouse CD11a, the 180 kDa integrin alpha L, also known as the lymphocyte function associated antigen-1 (LFA-1) alpha chain. LFA-1, formed by non-covalent association of CD11a with CD18 (integrin beta 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.

**Applications Reported:** The M17/4 antibody has been reported for use in flow cytometric analysis. M17/4 has also been reported in blocking of CD11a function.

**Applications Tested:** The M17/4 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

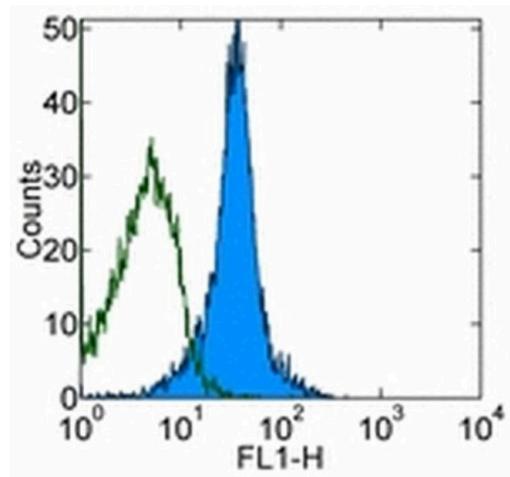
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

**Product Images For CD11a (LFA-1alpha) Monoclonal Antibody (M17/4), Functional Grade, eBioscience™**



**CD11a (LFA-1alpha) Antibody (16-0111-82) in Flow**  
Staining of C57Bl/6 splenocytes with 0.25 µg of Rat IgG2a K Isotype Control Functional Grade Purified (Product # 16-4321-82) (open histogram) or 0.25 µg of Anti-Mouse CD11a Functional Grade Purified (filled histogram) followed by Anti-Rat IgG FITC (Product # 11-4811-85). Cells in the lymphocyte gate were used for analysis.

Immunohistochemistry (1)

International journal of molecular sciences	Year 2022
<b>Adhesion Molecule Profile and the Effect of Anti-VLA-4 mAb Treatment in Experimental Autoimmune Encephalomyelitis, a Mouse Model of Multiple Sclerosis.</b>	
"Published figure using CD11a (LFA-1alpha) monoclonal antibody (Product # 16-0111-82) in Immunohistochemistry"	
Authors: Pyka-Fociak G,Lis GJ,Litwin JA	

Immunocytochemistry (1)

PloS one	Year 2010
<b>Calpain 4 is not necessary for LFA-1-mediated function in CD4+ T cells.</b>	
"16-0111 was used in Immunofluorescence to study calpain regulation of LFA-1 function."	Species Mouse
Authors: Wernimont SA,Simonson WT,Greer PA,Seroogy CM,Huttenlocher A	

Flow Cytometry (10)

PloS one	Year 2017
<b>A Novel Model of Asymptomatic Plasmodium Parasitemia That Recapitulates Elements of the Human Immune Response to Chronic Infection.</b>	Species Mouse
"16-0111 was used in Flow cytometry/Cell sorting to investigate aspects of the human immune response to asymptomatic persistent Plasmodium infection using a novel animal model."	
Authors: Fontana MF,Baccarella A,Craft JF,Boyle MJ,McIntyre TI,Wood MD,Thorn KS,Anidi C,Bayat A,Chung MR,Hamburger R,Kim CY,Pearman E,Pham J,Tang JJ,Boon L,Kamya MR,Dorsey G,Feeney ME,Kim CC	

Infection and immunity	Year 2015
<b>CD8+ T cell exhaustion, suppressed gamma interferon production, and delayed memory response induced by chronic Brucella melitensis infection.</b>	Species Mouse
"16-0111 was used in Flow cytometry/Cell sorting to assess the populations of immune cells which respond to chronic infection of Brucella melitensis."	
Authors: Durward-Diioia M,Harms J,Khan M,Hall C,Smith JA,Splitter GA	

[View more Flow references on thermofisher.com](#)

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- Neu (4)
- FN (3)
- IA (1)

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