

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

## Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	M17/4
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_467105

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	Assay-Dependent	2 Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.5 µg/test	14 Publications
Immunoprecipitation (IP)	Assay-Dependent	1 Publication
Neutralization (Neu)	Assay-Dependent	-
Functional Assay (FN)	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, 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.).

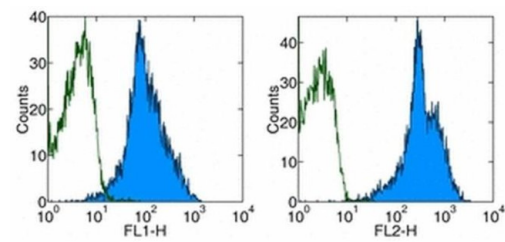
**Applications Tested:** The M17/4 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined 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.

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

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

Filtration: 0.2 µm post-manufacturing filtered.

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



**CD11a (LFA-1alpha) Antibody (14-0111-82) in Flow**  
Staining of mouse splenocytes with Anti-Mouse CD11a FITC (left) and PE (right). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

Immunohistochemistry (2)

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 # 14-0111-82) in Immunohistochemistry"	
Authors: Pyka-Fociak G,Lis GJ,Litwin JA	

Immunology and cell biology	Year 2016
<b>Toxoplasma gondii-infected natural killer cells display a hypermotility phenotype in vivo.</b>	Species Mouse
"14-0111 was used in Flow cytometry/Cell sorting to investigate whether T.gondii spreads by inducing a hypermotility phenotype in parasitised immune cells in vivo."	
Authors: Ueno N,Lodoen MB,Hickey GL,Robey EA,Coombes JL	

Immunocytochemistry (2)

Journal of immunology (Baltimore, Md. : 1950)	Year 2015
<b>Regulation of asymmetric division and CD8+ T lymphocyte fate specification by protein kinase C and protein kinase C/.</b>	Species Mouse
"14-0111 was used in Immunocytochemistry-immunoflourescence to show that PKC and PKC/i regulate asymmetric localization of effector fate-associated factors during the first CD8+ T cell division in vivo."	
Authors: Metz PJ,Arsenio J,Kakaradov B,Kim SH,Remedios KA,Oakley K,Akimoto K,Ohno S,Yeo GW,Chang JT	

Journal of immunology (Baltimore, Md. : 1950)	Year 2010
<b>PIPKI gamma 90 negatively regulates LFA-1-mediated adhesion and activation in antigen-induced CD4+ T cells.</b>	Species Mouse
"14-0111 was used in Immunofluorescence to demonstrate the activity of PIPKI gamma 90 as a novel negative regulator of antigen-induced CD4+ T cell adhesion and activation."	
Authors: Wernimont SA,Legate KR,Simonson WT,Fassler R,Huttenlocher A	

More applications with references on thermofisher.com

- Flow (14)
- IP (1)
- IA (1)

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