

# CD18 (LFA-1 beta) Monoclonal Antibody (M18/2), eBioscience™

## Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	M18/2
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_467139

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-Dependent	-
Immunohistochemistry (IHC)	Assay-Dependent	4 Publications
Flow Cytometry (Flow)	0.5 µg/test	6 Publications
Immunoprecipitation (IP)	Assay-Dependent	-
Neutralization (Neu)	Assay-Dependent	2 Publications
Functional Assay (FN)	Assay-Dependent	-

## Product Specific Information

**Description:** The M18/2 monoclonal antibody reacts with mouse CD18, the 90-95 kDa integrin beta 2 glycoprotein. CD18 is the common beta subunit that non-covalently associates with CD11a (alpha L), CD11b (alpha M) and CD11c (alpha X) to form LFA-1, Mac-1 and gp150/95. Heterodimers of CD18 and the alpha subunits are expressed broadly by all leukocytes with NK and T cells showing higher density of surface expression. Through the interactions of LFA-1, Mac-1 and gp150/95 with their counter-receptors, CD18 is involved in cellular adhesion and the immune response.

**Applications Reported:** The M18/2 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, immunoblotting (WB), and immunohistochemical staining. It has also been reported in blocking of CD18 in functional studies. (Please use Functional Grade purified M18/2, cat. 16-0181, in functional assays.).

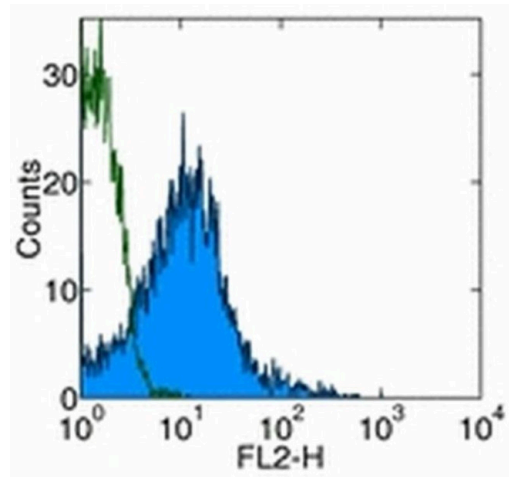
**Applications Tested:** The M18/2 antibody has been tested by flow cytometric analysis of mouse splenocytes and bone marrow cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell 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 CD18 (LFA-1 beta) Monoclonal Antibody (M18/2), eBioscience™



**CD18 (LFA-1 beta) Antibody (14-0181-82) in Flow**  
Staining of mouse splenocytes with Anti-Mouse CD18 PE. Autofluorescence is shown via open histogram. Total viable cells were used for analysis.

View more figures on [thermofisher.com](https://thermofisher.com)

Immunohistochemistry (4)

<p>Nature communications</p> <p><b>JunB defines functional and structural integrity of the epidermo-pilosebaceous unit in the skin.</b></p> <p>"14-0181 was used in Immunohistochemistry-immunofluorescence to define an unprecedented role for JunB in epidermal-pilosebaceous stem cell homeostasis and its pathology."</p> <p>Authors: Singh K,Camera E,Krug L,Basu A,Pandey RK,Munir S,Wlaschek M,Kochanek S,Schorpp-Kistner M,Picardo M,Angel P,Niemann C,Maity P,Scharffetter-Kochanek K</p>	<p>Year 2018</p> <p>Species Mouse</p> <p>Dilution 1:200</p>
<p>JCI insight</p> <p><b>Sustained inflammation after pericyte depletion induces irreversible blood-retina barrier breakdown.</b></p> <p>"Published figure using CD18 (LFA-1 beta) monoclonal antibody (Product # 14-0181-82) in Immunohistochemistry"</p> <p>Authors: Ogura S,Kurata K,Hattori Y,Takase H,Ishiguro-Oonuma T,Hwang Y,Ahn S,Park I,Ikeda W,Kusuhara S,Fukushima Y,Nara H,Sakai H,Fujiwara T,Matsushita J,Ema M,Hirashima M,Minami T,Shibuya M,Takakura N,Kim P,Miyata T,Ogura Y,Uemura A</p>	<p>Year 2017</p>

View more IHC references on thermofisher.com

Flow Cytometry (6)

<p>Immunology and cell biology</p> <p><b>Protein kinase D3 promotes neutrophil migration during viral infection.</b></p> <p>"Published figure using CD18 (LFA-1 beta) monoclonal antibody (Product # 14-0181-82) in Flow Cytometry"</p> <p>Authors: Veazey JM,Wong GS,Eliseeva SI,Smyth TR,Chapman TJ,Lim K,Kim M,Georas SN</p>	<p>Year 2023</p>
<p>Frontiers in immunology</p> <p><b>Central Nervous System Barriers Impact Distribution and Expression of iNOS and Arginase-1 in Infiltrating Macrophages During Neuroinflammation.</b></p> <p>"Published figure using CD18 (LFA-1 beta) monoclonal antibody (Product # 14-0181-82) in Flow Cytometry"</p> <p>Authors: Ivan DC,Waltherth S,Locatelli G</p>	<p>Year 2021</p>

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

Neu (2)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.