

CD11b Monoclonal Antibody (M1/70), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Fish, Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	M1/70
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_468884

Applications	Tested Dilution	Publications
Western Blot (WB)	-	2 Publications
Immunohistochemistry (IHC)	-	42 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	3 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	1 Publication
Immunocytochemistry (ICC/IF)	-	12 Publications
Flow Cytometry (Flow)	0.25 µg/test	199 Publications
Immunoprecipitation (IP)	-	1 Publication
Neutralization (Neu)	Assay-Dependent	1 Publication
Functional Assay (FN)	Assay-Dependent	-

Product Specific Information

Description: The M1/70 monoclonal antibody reacts with mouse CD11b, the 165-170 kDa integrin alphaM. CD11b non-covalently associates with CD18 to form alphaMbeta2 integrin (Mac-1) and binds to CD54 (ICAM-1), C3bi, and fibrinogen. Mac-1 is expressed by macrophages, NK cells, granulocytes, activated lymphocytes and mouse B-1 cells in the peritoneal cavity. M1/70 is also cross-reactive to human CD11b, and can be used for the detection of this antigen on human peripheral blood monocytes, granulocytes, and a subset of NK cells. Through interactions with its ligands, CD11b participates in adhesive cell interactions.

Applications Reported: The M1/70 antibody has been reported for use in flow cytometric analysis and immunohistochemical staining of frozen tissue sections. The M1/70 antibody is not recommended for immunohistochemistry of formalin-fixed paraffin embedded tissue. M1/70 has also been reported in in vitro blocking of CD11b function.

Applications Tested: The M1/70 antibody has been tested by flow cytometric analysis of mouse splenocytes or bone marrow cells. This can be used at less than or equal to 0.25 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 10⁵ to 10⁸ 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.

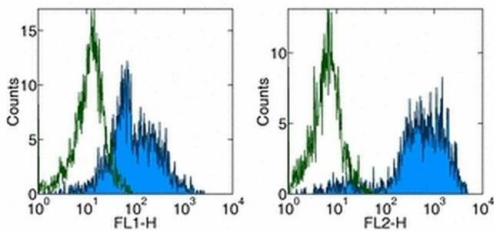
Filtration: 0.2 µm post-manufacturing filtered.

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 CD11b Monoclonal Antibody (M1/70), Functional Grade, eBioscience™



CD11b Antibody (16-0112-82) in Flow

Staining of mouse bone marrow with Anti-Mouse CD11b FITC (left), or PE (right). Appropriate isotype controls were used (open histogram). Cells in the myeloid population were used for analysis.

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

Western Blot (2)

Cell reports

Molecular Profiling and Functional Analysis of Macrophage-Derived Tumor Extracellular Vesicles.

"Published figure using CD11b monoclonal antibody (Product # 16-0112-82) in Immunoprecipitation"

Authors: Cianciaruso C,Beltraminelli T,Duval F,Nassiri S,Hamelin R,Mozes A,Gallart-Ayala H,Ceada Torres G,Torchia B,Ries CH,Ivanisevic J,De Palma M

Species
Not Applicable

Dilution
Not Cited

Year
2019

Cancer research

Tristetraprolin Limits Inflammatory Cytokine Production in Tumor-Associated Macrophages in an mRNA Decay-Independent Manner.

"Published figure using CD11b monoclonal antibody (Product # 16-0112-82) in Western Blot"

Authors: Kratochvill F,Gratz N,Qualls JE, Van De Velde LA,Chi H,Kovarik P,Murray PJ

Species
Not Applicable

Dilution
Not Cited

Year
2015

Immunohistochemistry (42)

Journal of inflammation research

Dual Activity of Ginsenoside Rb1 in Hypertrophic Cardiomyocytes and Activated Macrophages: Implications for the Therapeutic Intervention of Cardiac Hypertrophy.

"Published figure using CD11b monoclonal antibody (Product # 16-0112-82) in Immunohistochemistry"

Authors: Wang S,Cui Y,Xiong M,Li M,Wang P,Cui J,Du X,Chen Y,Zhang T

Species
Not Applicable

Dilution
Not Cited

Year
2022

Investigative ophthalmology & visual science

Light Environment Influences Developmental Programming of the Metabolic and Visual Systems in Mice.

"Published figure using CD11b monoclonal antibody (Product # 16-0112-82) in Immunohistochemistry"

Authors: Clarkson-Townsend DA,Bales KL,Marsit CJ,Pardue MT

Species
Not Applicable

Dilution
Not Cited

Year
2021

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

More applications with references on thermofisher.com

IHC (PFA) (3)

IHC (F) (1)

ICC/IF (12)

Flow (199)

IP (1)

Neu (1)

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.