

# CD11b Monoclonal Antibody (M1/70), Biotin, 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), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	M1/70
Conjugate	Biotin
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, store in dark, DO NOT FREEZE!
RRID	AB_466359

Applications	Tested Dilution	Publications
Western Blot (WB)	-	5 Publications
Immunohistochemistry (IHC)	-	43 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	4 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	3 Publications
Immunocytochemistry (ICC/IF)	-	19 Publications
Flow Cytometry (Flow)	0.125 µg/test	307 Publications
Immunoprecipitation (IP)	-	1 Publication
Neutralization (Neu)	-	2 Publications
Functional Assay (FN)	-	1 Publication
Miscellaneous PubMed (Misc)	-	11 Publications

## 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.

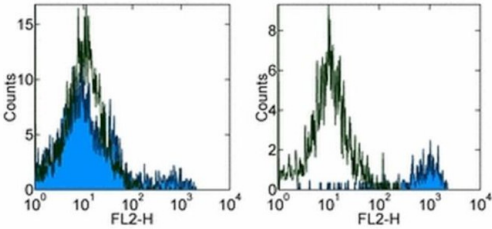
**Applications Reported:** This M1/70 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining of frozen tissue sections. The M1/70 clone is not recommended for immunohistochemical staining of formalin-fixed

paraffin embedded tissue.

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 0.125 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.

Filtration: 0.2 µm post-manufacturing filtered.

**Product Images For CD11b Monoclonal Antibody (M1/70), Biotin, eBioscience™**



**CD11b Antibody (13-0112-82) in Flow**  
Staining of C57BL/6 bone marrow cells with 0.06 µg of Biotin Rat IgG2b kappa Isotype Control Biotin (Product # 13-4031-82) (open histogram) or 0.06 µg of Anti-Mouse CD11b Biotin (filled histogram) followed by Streptavidin PE (Product # 12-4317-87). Cells in the lymphoid (left) or myeloid (right) populations were used for analysis.

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Western Blot (5)

Cancer cell	Year 2022
Cancer cell autophagy, reprogrammed macrophages, and remodeled vasculature in glioblastoma triggers tumor immunity.	Species Mouse
"13-0112-82 was used in Western Blot, Flow Cytometry, Immunohistochemistry (Frozen) to assess this concept by combining vascular endothelial growth factor (VEGF) pathway inhibitors that remodel the tumor vasculature with the tricyclic antidepressant imipramine, which enhances autophagy in GBM cancer cells and unexpectedly reprograms immunosuppressive tumor-associated macrophages via inhibition of histamine receptor signaling to become immunostimulatory."	
Authors: Chryplewicz A, Scotton J, Tichet M, Zomer A, Shchors K, Joyce JA, Homicsko K, Hanahan D	
Cells	Year 2022
Influence of the Postmortem/Storage Time of Human Corneas on the Properties of Cultured Limbal Epithelial Cells.	
"Published figure using CD11b monoclonal antibody (Product # 13-0112-82) in Western Blot"	
Authors: Le-Bel G, Desjardins P, Gross C, Cortez Ghio S, Couture C, Germain L, Guérin SL	

View more WB references on thermofisher.com

Immunohistochemistry (43)

MedComm	Year 2022
Single-cell transcriptomics reveals distinct cell response between acute and chronic pulmonary infection of <i>Pseudomonas aeruginosa</i> .	
"Published figure using CD11b monoclonal antibody (Product # 13-0112-82) in Immunohistochemistry"	
Authors: Hu X, Wu M, Ma T, Zhang Y, Zou C, Wang R, Zhang Y, Ren Y, Li Q, Liu H, Li H, Wang T, Sun X, Yang Y, Tang M, Li X, Li J, Gao X, Li T, Zhou X	
Journal of inflammation research	Year 2022
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 # 13-0112-82) in Immunohistochemistry"	
Authors: Wang S, Cui Y, Xiong M, Li M, Wang P, Cui J, Du X, Chen Y, Zhang T	

View more IHC references on thermofisher.com

More applications with references on thermofisher.com

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- IHC (F) (3)
- ICC/IF (19)
- Flow (307)
- IP (1)
- Neu (2)
- FN (1)
- Misc (11)

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