

# CD11b Monoclonal Antibody (M1/70), PE-Cyanine7, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	M1/70
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 nm
Form	Liquid
Concentration	0.2 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_469588

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	200 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

## 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.

Applications Tested: This M1/70 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 0.125 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.

Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

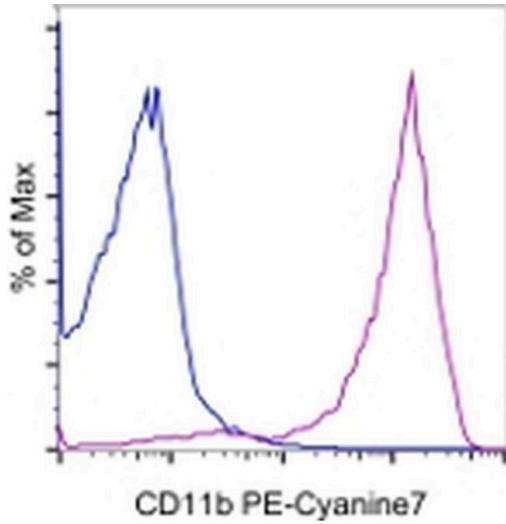
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific

performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

### Product Images For CD11b Monoclonal Antibody (M1/70), PE-Cyanine7, eBioscience™



#### CD11b Antibody (25-0112-82) in Flow

Staining of mouse bone marrow cells with 0.06 µg of Rat IgG2b K Isotype Control PE-Cyanine7 (Product # 25-4031-82) (blue histogram) or 0.06 µg of Anti-Mouse CD11b PE-Cyanine7 (purple histogram). Cells in the large scatter population were used for analysis.

## 201 References

### Flow Cytometry (200)

#### Therapeutic advances in chronic disease

##### Prevention of EAE by tolerogenic vaccination with PEGylated antigenic peptides.

"25-0112-82 was used in Flow Cytometry to investigate whether the tolerogenic potential of immunodominant myelin T-cell epitopes can be improved by conjugation to the synthetic carrier polyethylene glycol (PEG) in an experimental autoimmune encephalomyelitis (EAE) mouse model for chronic MS (MOG C57BL/6)."

Authors: Pfeil J, Simonetti M, Lauer U, von Thülen B, Durek P, Poulsen C, Pawlowska J, Kröger M, Krähmer R, Leenders F, Hoffmann U, Hamann A

Year  
2023

Species  
Mouse

#### NPJ vaccines

##### Differential requirement of neutralizing antibodies and T cells on protective immunity to SARS-CoV-2 variants of concern.

"25-0112-82 was used in Flow cytometry/Cell sorting to evaluate the efficacy of a Spike-based DNA vaccine (pCTV-WS) for protection against different VOCs using existing pre-clinical models of severe and moderate COVID-19."

Authors: Azevedo PO, Hojo-Souza NS, Faustino LP, Fumagalli MJ, Hirako IC, Oliveira ER, Figueiredo MM, Carvalho AF, Doro D, Benevides L, Durigon E, Fonseca F, Machado AM, Fernandes AP, Teixeira SR, Silva JS, Gazzinelli RT

Year  
2023

Species  
Mouse

Dilution  
1:4000

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

### Miscellaneous PubMed (1)

#### Journal of immunology (Baltimore, Md. : 1950)

##### SWAP-70 restricts spontaneous maturation of dendritic cells.

"25-0112 was used in Flow cytometry/Cell sorting to study the mechanisms and signals that produce mature DCs."

Authors: Ocaña-Morgner C, Götz A, Wahren C, Jessberger R

Year  
2013

Species  
Mouse

### More applications with references on thermofisher.com

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