

## Anti-Mouse CD11b Antibody, Clone M1/70, PE



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## Antibodies

Rat monoclonal IgG2b antibody  
against human, mouse, rhesus CD11b,  
PE-conjugated

Catalog #60001PE  
#60001PE.1

200 µg 0.2 mg/mL  
50 µg 0.2 mg/mL

## Product Description

The M1/70 antibody reacts with CD11b, an ~170 kDa type 1 transmembrane glycoprotein which associates non-covalently with CD18 to form the heterodimeric Mac-1 receptor. Through its interactions with ligands such as ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4 (CD242), iC3b, and fibrinogen, Mac-1 functions in several processes, including the adherence of neutrophils and monocytes to stimulated endothelium and phagocytosis of complement-coated particles. CD11b is expressed on the surface of granulocytes, monocytes, NK cells, dendritic cells, tissue macrophages, and subsets of T and B cells, and has been used as a marker to distinguish naïve and memory CD8+ T cells. CD11b is a relatively late marker for myeloid differentiation and is undetectable on most myelomonocytic hematopoietic progenitor cells and more primitive cells. The M1/70 antibody reportedly blocks iC3b binding to Mac-1.

|                      |                                                              |
|----------------------|--------------------------------------------------------------|
| Target Antigen Name: | CD11b                                                        |
| Alternative Names:   | alphaM integrin, C3biR, CR3, Ly-40, Mac-1, Mo1               |
| Gene ID:             | 16409                                                        |
| Species Reactivity:  | Human, Mouse, Rhesus, Cynomolgus, Baboon, Chimpanzee, Rabbit |
| Host Species:        | Rat                                                          |
| Clonality:           | Monoclonal                                                   |
| Clone:               | M1/70                                                        |
| Isotype:             | IgG2b, kappa                                                 |
| Immunogen:           | C57BL/10 mouse splenocytes                                   |
| Conjugate:           | PE (Phycoerythrin)                                           |

## Applications

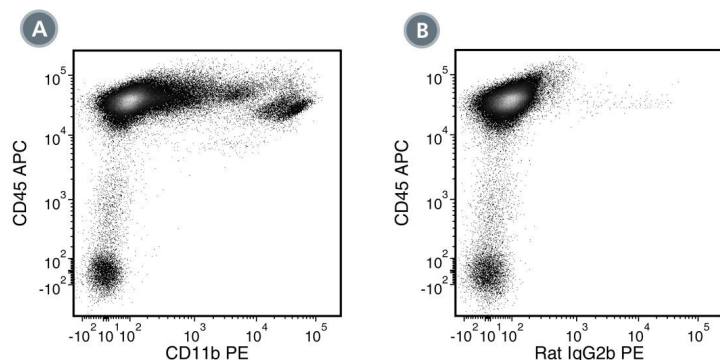
|                       |                                                                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Verified:             | CellSep, FC                                                                                                                                                          |
| Reported:             | FC, ICC, IF, IHC                                                                                                                                                     |
| Special Applications: | This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse Monocyte Isolation Kit (Catalog #19861). |

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

## Properties

|                        |                                                                                                                                                                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Formulation:           | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide                                                                                                                                                                 |
| Purification:          | The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.                                                           |
| Stability and Storage: | Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact <a href="mailto:techsupport@stemcell.com">techsupport@stemcell.com</a> . |
| Directions for Use:    | For flow cytometry, the suggested use of this antibody is $\leq 0.25$ µg per $1 \times 10^6$ cells in 100 µL. It is recommended that the antibody be titrated for optimal performance for each application.                        |

## Data



(A) Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD11b Antibody, Clone M1/70, PE and anti-mouse CD45 APC.  
 (B) Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with a rat IgG2b, kappa PE isotype control antibody and anti-mouse CD45 APC.

## Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at [www.stemcell.com/antibodies](http://www.stemcell.com/antibodies) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

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