| ,<br>, , , , , , , , , , , , , , , , , , , | Anti-Mouse CD11b Antibody,<br>Clone M1/70, Alexa Fluor® 488 |                                                                            | STENCELL <sup>M</sup>                                                                                       |
|--------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Antibodies                                 | against h                                                   | oclonal IgG2b antibody<br>uman, mouse, rhesus CD11b,<br>or® 488-conjugated | Scientists Helping Scientists™   WWW.STEMCELL.COM<br>TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713 |
| Catalog #60001AD<br>#60001AD.1             | 100 μg<br>25 μg                                             | 0.5 mg/mL<br>0.5 mg/mL                                                     | INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM<br>FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE                |
|                                            |                                                             |                                                                            |                                                                                                             |

### **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:           | Alexa Fluor® 488                                             |
|                      |                                                              |

### Applications

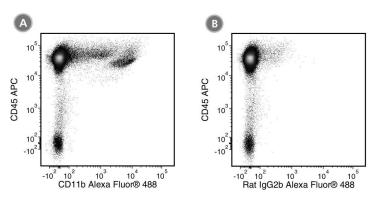
| Verified:             | FC                                                                                                                                                                   |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reported:             | FC                                                                                                                                                                   |
| 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 Alexa Fluor® 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 488.                           |
| 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 techsupport@stemcell.com.                  |
| Directions for Use:    | For flow cytometry, the suggested use of this antibody is $\leq$ 0.25 µg per 1 x 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, Alexa Fluor® 488 and anti-mouse CD45 APC.

(B) Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with a rat IgG2b, kappa Alexa Fluor® 488 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 or contact us at techsupport@stemcell.com.

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