

## Anti-Human/Mouse CD11b PE

Catalog Number :03221-60

RUO: For Research Use Only. Not for use in diagnostic procedures.

### Product Information

**Clone:** M1/70

**Format/Conjugate:** PE

**Concentration:** 0.2 mg/mL

**Reactivity:** Human, Mouse

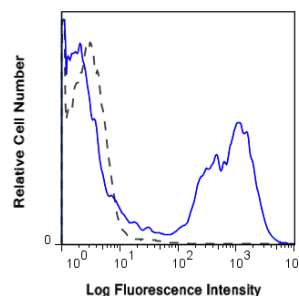
**Laser:** Blue (488nm), Yellow/Green (532-561nm)

**Peak Emission:** 578nm

**Peak Excitation:** 496nm

**Filter:** 585/40

**Brightness (1=dim,5=brightest):** 5



C57Bl/6 bone marrow cells were stained with PE M1/70 with relevant isotype control in Gray

**Isotype:** Rat IgG2b, kappa

**Formulation:** Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

**Storage:** Product should be kept at 2-8°C and protected from prolonged exposure to light.

**Applications:** FC

### Description

The M1/70 monoclonal antibody specifically reacts with the 170 kDa αM integrin chain of mouse CD11b from the Mac-1 integrin (CD11b/CD18). Mac-1 binds to C3bi, CD54 (ICAM-1), and fibrinogen, and it is expressed by granulocytes, macrophages, NK cells, myeloid-derived dendritic cells, microglia, activated lymphocytes, and mouse B-1 cells. The expression is up-regulated on activated neutrophils at the same time that L-selectin is shed from the cell surface. The M1/70 antibody is used for the detection of monocytes, granulocytes, and a subset of natural killer cells in human peripheral blood.

M1/70 blocks C3bi binding and cell adherence, but not cell-mediated lysis and it cross-reacts with human CD11b.

### Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is ≤0.125 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

### References

1. Sanchez-Madrid, F., Simon, P., Thompson, S., Springer, T. A. (1983). Mapping of antigenic and functional epitopes on the alpha-and beta-subunits of two related mouse glycoproteins involved in cell interactions, LFA-1 and Mac-1. The Journal of experimental medicine, 158(2), 586-602.
2. Ault, K. A., Springer, T. A. (1981). Cross-reaction of a rat-anti-mouse phagocyte-specific monoclonal antibody (anti-Mac-1) with human monocytes

and natural killer cells.;The Journal of Immunology,;126(1), 359-364.

3. Springer, T., Galfre, G., Secher, D. S., Milstein, C. (1978). Monoclonal xenogeneic antibodies to murine cell surface antigens: identification of novel leukocyte differentiation antigens.;European journal of immunology,;8(8), 539-551.