

TECHNICAL DATA SHEET

PE-Cy5 Anti-Human/Mouse CD11b (M1/70)

Catalog Number: 55-0112

PRODUCT INFORMATION

Contents: PE-Cy5 Anti-Human/Mouse CD11b (M1/70)

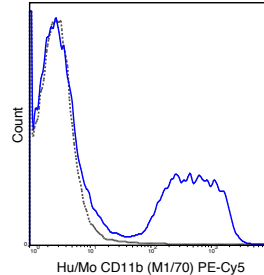
Isotype: Rat IgG2b, kappa

Concentration: 0.2 mg/mL

Clone: M1/70

Reactivity: Human, Mouse

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃,
0.1% gelatin, pH7.2



C57Bl/6 bone marrow cells were stained with 0.125 ug PE-Cy5 Anti-Hu/Mo CD11b (55-0112) (solid line) or 0.125 ug PE-Cy5 Rat IgG2b isotype control (dashed line).

DESCRIPTION

The M1/70 antibody reacts with human and mouse CD11b, also known as integrin alpha M. This 165-170 kDa cell surface glycoprotein is part of a family of integrin receptors that mediate adhesion between cells (cell-cell) and components of the extracellular matrix, e.g. fibrinogen (cell-matrix). In addition, integrins are active signaling receptors which recruit leukocytes to inflammatory sites and promote cell activation. Complete, functional integrin receptors consist of distinct combinations of integrin chains which are differentially expressed. Integrin alpha M (CD11b) assembles with Integrin beta-2 (CD18) into a receptor known as Macrophage Antigen-1 (Mac-1) or complement receptor type 3 (CR3). This receptor binds and induces intracellular signaling through ICAM-1 on endothelial cells and can also facilitate removal of iC3b bearing foreign cells. The M1/70 antibody is widely used as a marker for CD11b expression on mouse macrophages, granulocytes, neutrophils, and NK cells. The antibody is also reported to be cross-reactive for Rhesus macaque CD11b.

PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

APPLICATION NOTES

This antibody preparation has been quality-tested for flow cytometry using mouse spleen cells, or an appropriate cell type (where indicated). The amount of antibody required for optimal staining of a cell sample should be determined empirically in your system.

REFERENCES

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