Anti-Mouse CD11b Antibody, Clone M1/70, Biotin

Antibodies

Rat monoclonal IgG2b antibody against human, mouse, rhesus CD11b,

biotin-conjugated

Catalog #60001BT #60001BT.1

500 μg 0.5 mg/mL 50 μg 0.5 mg/mL



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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: Biotin

Applications

Verified: CellSep, FC

Reported: CellSep, 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 biotin under optimal conditions.

The solution is free of unconjugated biotin.

Stability and Storage: Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact

techsupport@stemcell.com.

Directions for Use: For flow cytometry, the suggested use of this antibody is $\leq 0.25 \,\mu g$ per 1 x 10⁶ cells in 100 μL . It is

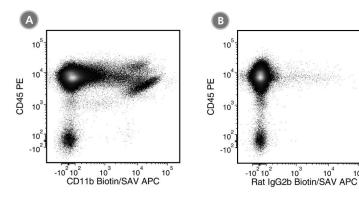
recommended that the antibody be titrated for optimal performance for each application.

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Data



- (A) Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD11b Antibody, Clone M1/70, Biotin, followed by streptavidin (SAV) APC and Anti-Mouse CD45 Antibody, Clone 30-F11, PE (Catalog #60030PE).
- (B) Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Rat IgG2b, kappa Isotype Control Antibody, Clone RTK4530, Biotin (Catalog #60077BT), followed by SAV APC and Anti-Mouse CD45 Antibody, Clone 30-F11, PE.

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.

References

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