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

Antibodies

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

Catalog	#60001PE	200 µg	0.2 mg/mL
	#60001PE.1	50 µg	0.2 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:	PE

Applications

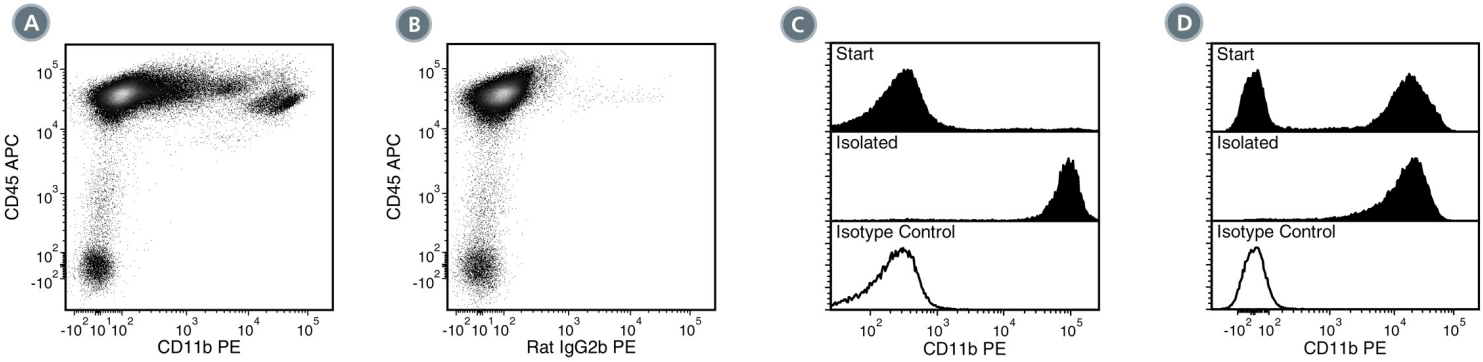
Verified:	CellSep, FC
Reported:	FC, ICC, IF, IHC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse Monocyte Enrichment Kit (Catalog #19761).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; 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 techsupport@stemcell.com.
Directions for Use:	For flow cytometry the suggested use of this antibody is ≤ 0.25 µg per 1 x 10^6 cells in 100 µL volume. 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.
(C) Flow cytometry analysis of C57BL/6 mouse splenocytes processed with the EasySep™ Mouse Monocyte Enrichment Kit and labeled with Anti-Mouse CD11b Antibody, Clone M1/70, PE. Histograms show labeling of splenocytes (Start) and isolated cells (Isolated). Labeling of start cells with a rat IgG2b, kappa PE isotype control antibody is shown in the bottom panel (open histogram).
(D) Flow cytometry analysis of C57BL/6 mouse bone marrow cells processed with the EasySep™ Mouse Monocyte Enrichment Kit and labeled with Anti-Mouse CD11b Antibody, Clone M1/70, PE. Histograms show labeling of bone marrow cells (Start) and isolated cells (Isolated). Labeling of start cells with a rat IgG2b, kappa PE isotype control antibody is shown in the bottom panel (open histogram).

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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