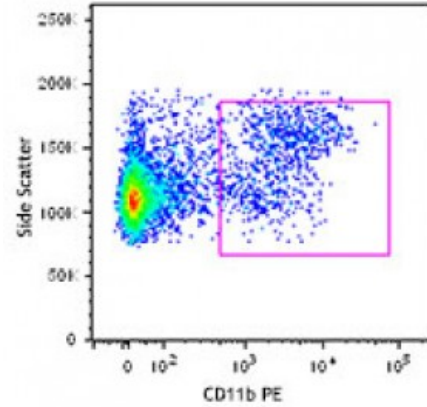


Mouse MDSC Flow Cocktail 1 with Isotype Ctrl

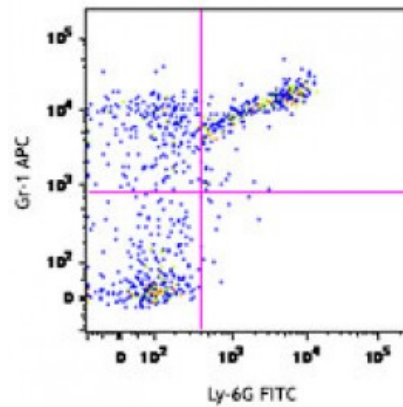
Catalog # / Size: 1335005 / 25 tests
Clone: M1/70/RB6-8C5/1A8
Isotype: Rat IgG2a,Rat IgG2b
Reactivity: Mouse
Preparation: This reagent is a multicolor cocktail of PE conjugated CD11b (clone M1/70), APC conjugated Gr-1 (clone RB6-8C5), and FITC conjugated Ly-6G (clone 1A8) at optimal concentration for three-color flow cytometric analysis.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration: Lot-specific



C57BL/6 mouse bone marrow cells were stained with mouse MDSC Flow Cocktail 1 (CD11b PE/Gr-1 APC/Ly-6G FITC).

Applications:

Applications: Flow Cytometry
Recommended Usage: Each lot of these antibodies is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 20 microL per million cells or 20 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



Application Notes: **Materials provided:**
 1. Mouse MDSC Flow Cocktail (containing CD11b PE/Gr-1 APC/Ly-6G FITC), 25 tests
 2. Mouse MDSC Isotype Control Cocktail (containing rat IgG2b PE/rat IgG2b APC/rat IgG2a FITC), 25 tests

Materials not provided:
 Cell Staining Buffer (Cat. No. 420201)
 Single color compensation controls

Description: This mouse MDSC Flow Cocktail 1 is composed of CD11b, Gr-1, and Ly-6G antibodies and corresponding isotype controls. MDSCs have been reported with CD11b and Gr-1 phenotype. MDSCs are a heterogenous population of cells that can affect T cell function. Two different subsets of MDSC exist: CD11b⁺Ly-6G⁺Ly-6C^{low} (granulocytic MDSC) and CD11b⁺Ly-6G⁺Ly-6C^{hi} (monocytic MDSC). These cells have been identified in a variety of pathological conditions including cancer

and autoimmune disease.

CD11b: CD11b is a 170 kD glycoprotein also known as α M integrin, Mac-1 α subunit, Mol, CR3, and Ly-40. CD11b is a member of the integrin family, primarily expressed on granulocytes, monocytes/macrophages, dendritic cells, NK cells, and subsets of T and B cells. CD11b non-covalently associates with CD18 (β 2 integrin) to form Mac-1. Mac-1 plays an important role in cell-cell interaction by binding its ligands ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4 (CD242), iC3b, and fibrinogen.

Gr-1: Gr-1 is a 21-25 kD protein also known as Ly-6G/Ly-6C. This myeloid differentiation antigen is a glycosylphosphatidylinositol (GPI)-linked protein expressed on granulocytes and macrophages. In bone marrow, the expression levels of Gr-1 directly correlate with granulocyte differentiation and maturation; Gr-1 is also transiently expressed on bone marrow cells in the monocyte lineage. Immature Myeloid Gr-1+ cells play a role in the development of antitumor immunity.

Ly-6G: Lymphocyte antigen 6 complex, locus G (Ly-6G), a 21-25 kD GPI-anchored protein, is expressed on the majority of myeloid cells in bone marrow and peripheral granulocytes.

**Antigen
References:**

1. Fleming TJ, *et al.* 1993. *J. Immunol.* 151:2399.
2. Daley JM, *et al.* 2008. *J. Leukocyte Biol.* 83:1.
3. Dietlin TA, *et al.* 2007. *J. Leukocyte Biol.* 81:1205.
4. Barclay A, *et al.*