

Anti-Mouse Ly-6G Antibody, Clone 1A8, Pacific Blue™



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Antibodies

Rat monoclonal IgG2a antibody
against mouse Ly-6G, Pacific Blue™-
conjugated

Catalog #60031PB
#60031PB.1

100 µg 0.5 mg/mL
25 µg 0.5 mg/mL

Product Description

The 1A8 antibody reacts with Ly-6G, a 21 - 25 kDa GPI-anchored protein, which together with the structurally related Ly-6C protein comprises the granulocyte receptor-1 antigen (Gr-1). Gr-1 is expressed on monocytes, neutrophils and subsets of macrophages, plasmacytoid dendritic cells, and T cells. Monocytes in the bone marrow transiently express Gr-1 during development and the expression level is strongly correlated with granulocyte differentiation and maturation. In the periphery, Gr-1 is found predominantly on neutrophils and is a useful marker for these cells. The 1A8 antibody binds specifically to Ly-6G, whereas another commonly used antibody, clone RB6-8C5, binds to both Ly-6G and Ly-6C. It has been reported that the 1A8 antibody detects Ly-6G-expressing granulocytes in peripheral blood, whereas the RB6-8C5 antibody also binds to Ly-6C-expressing lymphocytes, monocytes, and dendritic cells.

Target Antigen Name:	Ly-6G
Alternative Names:	Gr-1, GR1, Ly6G
Gene ID:	546644
Species Reactivity:	Mouse
Host Species:	Rat (LEW)
Clonality:	Monoclonal
Clone:	1A8
Isotype:	IgG2a, kappa
Immunogen:	Mouse Ly-6G-transfected EL-4J cell line
Conjugate:	Pacific Blue™

Applications

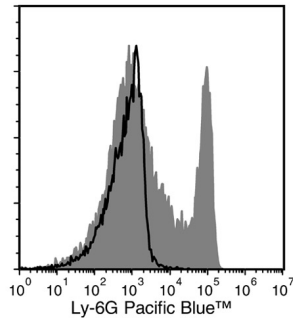
Verified:	FC
Reported:	FC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse Neutrophil Enrichment Kit (Catalog #19762).

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 Pacific Blue™ under optimal conditions. The solution is free of unconjugated Pacific Blue™.
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 ≤ 1 µg per 1 x 10 ⁶ cells in 100 µL or per 100 µL of whole blood. It is recommended that the antibody be titrated for optimal performance for each application.

Data



Flow cytometry analysis of C57BL/6 mouse bone marrow cells labeled with Anti-Mouse Ly-6G Antibody, Clone 1A8, Pacific Blue™ (filled histogram) or a rat IgG2a, kappa Pacific Blue™ isotype control antibody (solid line 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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