

## Antibodies

### Anti-Mouse Ly-6G Antibody, Clone 1A8

Rat monoclonal IgG2a antibody  
against mouse Ly-6G, unconjugated

Catalog #60031

500 µg    0.5 mg/mL



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## 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:	Unconjugated

## Applications

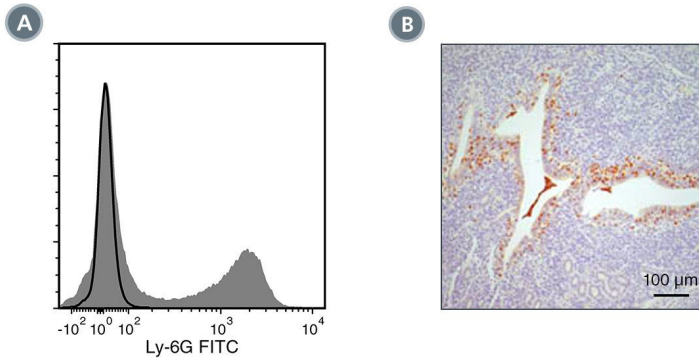
Verified:	FC
Reported:	FA, FC, IP, IHC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse Neutrophil Enrichment Kit (Catalog #19762).

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.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact <a href="mailto:techsupport@stemcell.com">techsupport@stemcell.com</a> .
Directions for Use:	For flow cytometry the suggested use of this antibody is $\leq 0.25 \mu\text{g}$ per $1 \times 10^6$ 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 Ly-6G Antibody, Clone 1A8, followed by a mouse anti-rat IgG2a antibody, FITC (filled histogram), or Rat IgG2a, kappa Isotype Control Antibody, Clone RTK2758 (Catalog #60076), followed by a mouse anti-rat IgG2a antibody, FITC (solid line histogram).

(B) Immunohistochemical analysis of formalin-fixed, paraffin-embedded mouse uterine tissue labeled with Anti-Mouse Ly-6G Antibody, Clone 1A8, followed by anti-mouse, HRP. DAB substrate was used for visualization.

## 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](http://www.stemcell.com/antibodies) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

## References

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