

## Technical Data Sheet

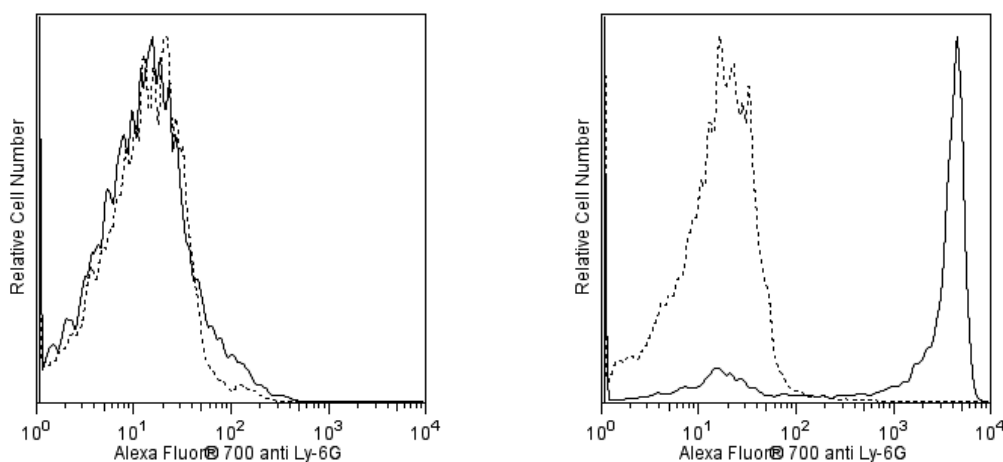
## Alexa Fluor® 700 Rat Anti-Mouse Ly-6G

## Product Information

<b>Material Number:</b>	561236
<b>Alternate Name:</b>	Ly6g; Lymphocyte antigen 6G; Lymphocyte antigen 6 complex, locus G; Gr1
<b>Size:</b>	50 µg
<b>Concentration:</b>	0.2 mg/ml
<b>Clone:</b>	1A8
<b>Immunogen:</b>	Ly-6G-transfected EL4J Cell Line
<b>Isotype:</b>	Rat (LEW) IgG2a, κ
<b>Reactivity:</b>	QC Testing: Mouse
<b>Storage Buffer:</b>	Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium azide.

## Description

The 1A8 monoclonal antibody specifically binds to Ly-6G, a 21-25-kDa GPI-anchored protein. In the bone marrow, Ly6G is expressed on the majority of the largest cells, that are predominantly granulocytes, and not on lymphoid or erythroid cells. In the periphery, it is expressed on granulocytes. The mAb RB6-8C5 (Cat. no. 557445/553123) recognizes both Ly-6G and Ly-6C and blocks the binding of mAb 1A8 to Ly-6G.



*Flow cytometric analysis of Ly-6G expression on mouse bone-marrow leukocytes. A BALB/c bone-marrow cell suspension was stained with either Alexa Fluor® 700 Rat anti-Mouse Ly-6G antibody (Cat. No. 561236; solid line histogram) or Alexa Fluor® 700 rat IgG2a, κ Isotype Control (Cat. No. 557963; dashed line histogram). Flow cytometric histograms were derived from gated events based on the light scattering characteristics of viable lymphoid (Left Panel) or myeloid (Right Panel) cells. Flow cytometry was performed using a BD™ LSR II Flow Cytometry System.*

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to Alexa Fluor® 700 under optimum conditions, and unreacted Alexa Fluor® 700 was removed.

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

## Application Notes

## Application

Flow cytometry	Routinely Tested
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## Suggested Companion Products

Catalog Number	Name	Size	Clone
557963	Alexa Fluor® 700 Rat IgG2a, κ Isotype Control	0.1 mg	R35-95
554656	Stain Buffer (FBS)	500 ml	(none)

## Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- An isotype control should be used at the same concentration as the antibody of interest.

## BD Biosciences

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3. Please refer to [www.bdbiosciences.com/pharming/protocols](http://www.bdbiosciences.com/pharming/protocols) for technical protocols.
4. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
5. Alexa Fluor® 700 has an adsorption maximum of ~700nm and a peak fluorescence emission of ~720nm. Before staining cells with this reagent, please confirm that your flow cytometer is capable of exciting the fluorochrome and discriminating the resulting fluorescence.
6. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.
7. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
8. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at [www.bdbiosciences.com/colors](http://www.bdbiosciences.com/colors).

## References

Fleming TJ, Fleming ML, Malek TR. Selective expression of Ly-6G on myeloid lineage cells in mouse bone marrow. RB6-8C5 mAb to granulocyte-differentiation antigen (Gr-1) detects members of the Ly-6 family. *J Immunol.* 1993; 151(5):2399-2408. (Immunogen)

Fleming TJ, Malek TR. Multiple glycosylphosphatidylinositol-anchored Ly-6 molecules and transmembrane Ly-6E mediate inhibition of IL-2 production. *J Immunol.* 1994; 153(5):1955-1962. (Biology)

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