

Technical Data Sheet

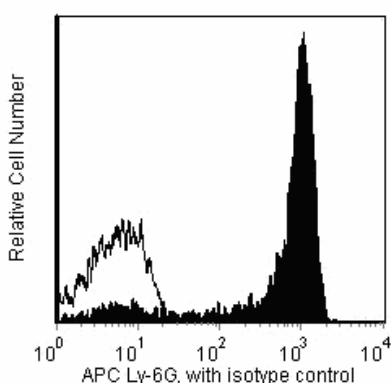
APC Rat Anti-Mouse Ly-6G

Product Information

Material Number:	560599
Size:	50 µg
Concentration:	0.2 mg/ml
Clone:	1A8
Immunogen:	Ly-6G-transfected EL4J Cell Line
Isotype:	Rat (LEW) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤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.

**Analysis of Ly-6G on mouse bone marrow.**

Bone marrow cells from C57BL/6 mice were stained either with a APC Rat IgG2a, κ isotype control (unshaded) or with the APC Rat Anti-Mouse Ly-6G antibody (shaded). Histograms were derived from gated events based on light scattering characteristics for bone marrow myeloid cells. Flow cytometry was performed on a BD™ LSR II flow cytometry system.

Preparation and Storage

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

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

The antibody was conjugated to APC under optimum conditions, and unconjugated antibody and free APC were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
553932	APC Rat IgG2a κ Isotype Control	0.1 mg	R35-95
553141	Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™)	0.1 mg	2.4G2

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. 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.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
5. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.

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)

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