

Datasheet for ABIN457353
anti-Ly6g antibody (FITC)

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Overview

Quantity:	0.1 mg
Target:	Ly6g
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This Ly6g antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Murine granulocytes
Clone:	RB6-8C5
Isotype:	IgG2b
Specificity:	The rat monoclonal antibody RB6-8C5 detects Ly6G component of Gr-1 antigen, a commonly used surface marker of neutrophils.
Cross-Reactivity (Details):	Mouse
Purification:	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	Ly6g
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Target Details

Alternative Name: Ly6G ([Ly6g Products](#))

Background: Lymphocyte antigen 6 complex, locus G, Ly6G is a component of the myeloid differentiation antigen Gr-1, together with Ly6C. Ly6G is a good marker for detection of peripheral neutrophils. Expression of Gr-1 in bone marrow correlates with granulocyte differentiation and maturation. Physiological role of Ly6G remains still unclear. Its treatment with antibodies in vivo leads to neutropenia and has inhibitory effect on local immune responses., Gr1, Gr-1, Ly-6G

Gene ID: 546644

UniProt: [A0A087WQF5](#)

Application Details

Application Notes: Flow cytometry: Recommended dilution: 1-4 µg/mL.

Comment: The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC.

Restrictions: For Research Use only

Handling

Concentration: 0.5 mg/mL

Buffer: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: **Do not freeze.**
Avoid prolonged exposure to light.

Storage: 4 °C

Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in: Jung, Zindl, Lai, Weaver, Chaplin: "MMP induced by Gr-1+ cells are crucial for recruitment of Th cells into the airways." in: **European journal of immunology**, Vol. 39, Issue 8, pp. 2281-92, (2009) ([PubMed](#)).

dos Santos, Vaz Cardoso, Nascimento, Lino, Dorta, de Oliveira, Ribeiro-Dias: "Leishmania major: recruitment of Gr-1+ cells into draining lymph nodes during infection is important for early IL-12 and IFN gamma production." in: **Experimental parasitology**, Vol. 119, Issue 3, pp. 403-10, (2008) ([PubMed](#)).

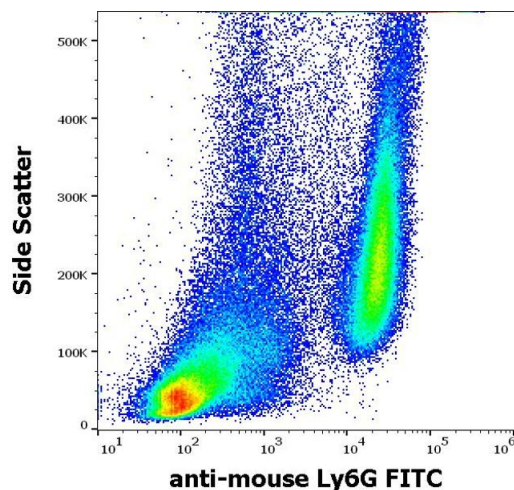
Leendertse, Willems, Giebelen, Roelofs, Bonten, van der Poll: "Neutrophils are essential for rapid clearance of Enterococcus faecium in mice." in: **Infection and immunity**, Vol. 77, Issue 1, pp. 485-91, (2008) ([PubMed](#)).

Fan, Li, Levy, Fan, Hackam, Vodovotz, Yang, Tracey, Billiar, Wilson: "Hemorrhagic shock induces NAD(P)H oxidase activation in neutrophils: role of HMGB1-TLR4 signaling." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 178, Issue 10, pp. 6573-80, (2007) ([PubMed](#)).

Koo, Gan: "The innate interferon gamma response of BALB/c and C57BL/6 mice to in vitro Burkholderia pseudomallei infection." in: **BMC immunology**, Vol. 7, pp. 19, (2006) ([PubMed](#)).

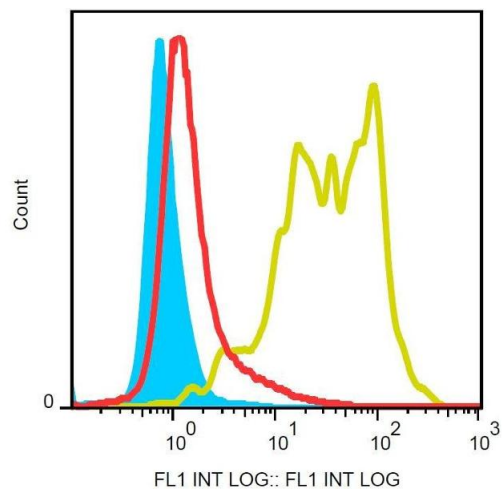
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Images



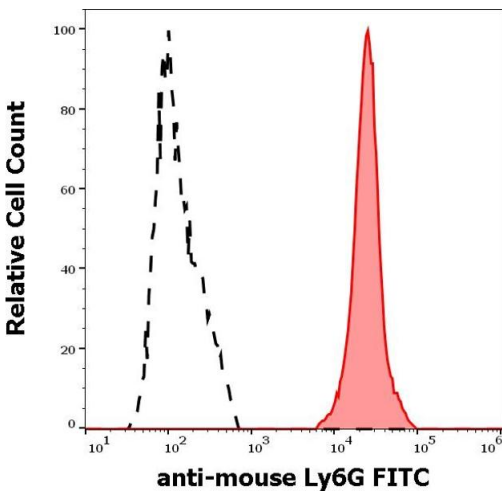
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of murine bone marrow cells stained using anti-mouse Ly6G (RB6-8C5) FITC antibody (concentration in sample 0,5 µg/mL).



Flow Cytometry

Image 2. Surface staining of murine splenocytes with anti-Ly-6G (RB6-8C5) FITC.



Flow Cytometry

Image 3. Separation of murine Ly6G positive cells (red-filled) from murine Ly6G negative cells (black-dashed) in flow cytometry analysis (surface staining) of murine bone marrow cells stained using anti-mouse Ly6G (RB6-8C5) FITC antibody (concentration in sample 0,5 µg/mL).