

Datasheet for ABIN457407

**anti-Ly6g antibody**

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## Overview

Quantity:	0.1 mg
Target:	Ly6g
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This Ly6g antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro)), Functional Studies (Func), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## 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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)
Endotoxin Level:	Endotoxin level is less than 0.01 EU/μg of the protein, as determined by the LAL test.

## Target Details

Target:	Ly6g
Alternative Name:	Ly6G ( <a href="#">Ly6g Products</a> )
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:	<a href="#">A0A087WQF5</a>

## Application Details

Application Notes:	Functional application: Neutrophil depletion. Immunoprecipitation: Recommended dilution: 1-2 µg / 100-500 µg of protein. Western blotting: Recommended dilution: 1 µg/mL. Flow cytometry: Recommended dilution: 1-4 µg/mL
Restrictions:	For Research Use only

## Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Preservative:	Azide free
Handling Advice:	<b>Do not freeze.</b>
Storage:	4 °C
Storage Comment:	Store at 2-8°C. 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: <b>European journal of immunology</b> , Vol. 39, Issue 8, pp. 2281-92, (2009) ( <a href="#">PubMed</a> ).  dos Santos, Vaz Cardoso, Nascimento, Lino, Dorta, de Oliveira, Ribeiro-Dias: "Leishmania major:
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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](#)).

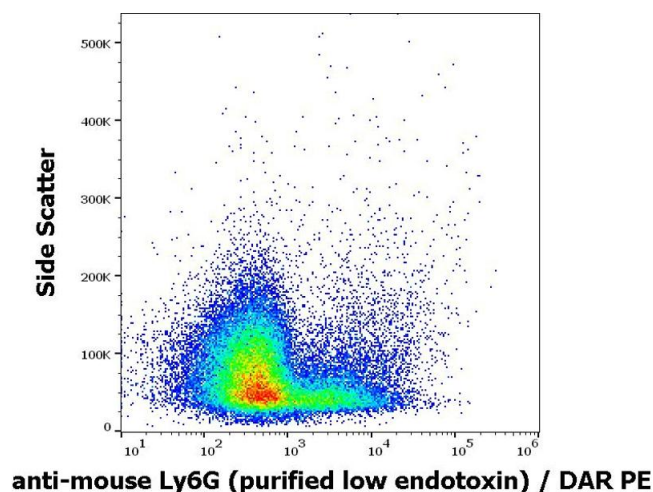
Leendertse, Willems, Giebelen, Roelofs, Bonten, van der Poll: "Neutrophils are essential for rapid clearance of *Enterococcus faecium* in mice." in: **Infection and immunity**, Vol. 77, Issue 1, pp. 485-91, (2008) ([PubMed](#)).

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](#)).

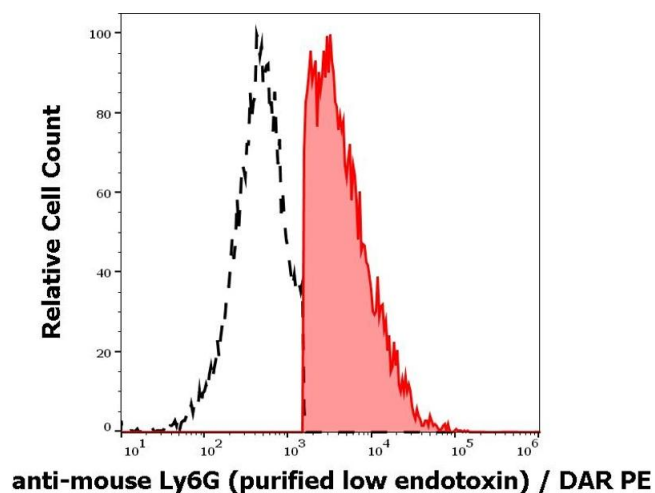
There are more publications referencing this product on: [Product page](#)

## Images



### Flow Cytometry

**Image 1.** Flow cytometry surface staining pattern of murine splenocyte suspension stained using anti-mouse Ly6G (RB6-8C5) purified antibody (low endotoxin, concentration in sample 9 µg/mL) DAR PE.



### Flow Cytometry

**Image 2.** Separation of murine Ly6G positive cells (red-filled) from Ly6G negative cells (black-dashed) in flow cytometry analysis (surface staining) of murine splenocyte suspension stained using anti-mouse Ly6G (RB6-8C5) purified antibody (low endotoxin, concentration in sample 9  $\mu\text{g/mL}$ ) DAR PE.