ARG63065
anti-Ly6G + Ly6C antibody [RB6-8C5] (Functional Grade)

Package: 100 µg, 50 µg
Store at: -20°C

Summary

Product Description	Functional grade and low endotoxin Rat Monoclonal antibody [RB6-8C5] recognizes Ly6G + Ly6C
Tested Reactivity	Ms
Tested Application	CyTOF®-candidate, FACS, FuncSt, IHC-Fr, IHC-P, IP, WB
Specificity	This antibody recognizes the mouse Gr-1 antigen, a ~21 - 25 kDa GPI anchored cell surface protein bearing a single uPAR/Ly6 domain that belongs to the Ly-6 family of proteins (Lee et al. 2013). Clone RB6-8C5 reacts predominantly with the Ly-6G protein but weaker reactivity with the Ly-6C protein has been reported (Fleming et al. 1993). However, other observations dispute the cross-reactivity of clone RB6-8C5 with the Ly-6C protein with the alternative explanation that certain sub-populations of bone marrow cells simultaneously express both Ly-6C and Ly-6G (Nagendra et al. 2007).
Host	Rat
Clonality	Monoclonal
Clone	RB6-8C5
Isotype	IgG2b
Target Name	Ly6G + Ly6C
Species	Mouse
Immunogen	Murine granulocytes
Conjugation	Un-conjugated
Alternate Names	Gr1; Gr-1; Ly-6G

Application Instructions

Application table

Application	Dilution
CyTOF®-candidate	Assay-dependent
FACS	1 - 4 µg/ml
FuncSt	Assay-dependent
IHC-Fr	Assay-dependent
IHC-P	Assay-dependent
IP	1 - 2 µg / 100 - 500 µg of protein
WB	1 µg/ml

Application Note

Functional studies: This clone RB6-8C5 has been used successfully for the depletion of mature neutrophils in vivo (PMID: 8120393, PMID: 17884993).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

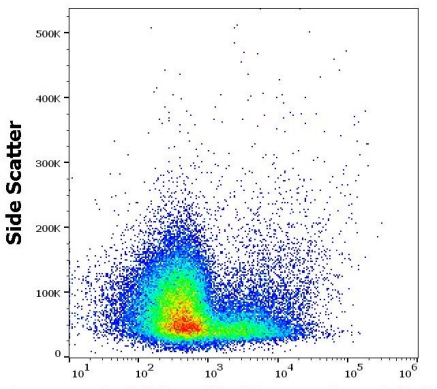
Properties

Form	Liquid
Purification	Purification with Protein G.
Purification Note	0.2 μm filter sterilized. Endotoxin level is 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

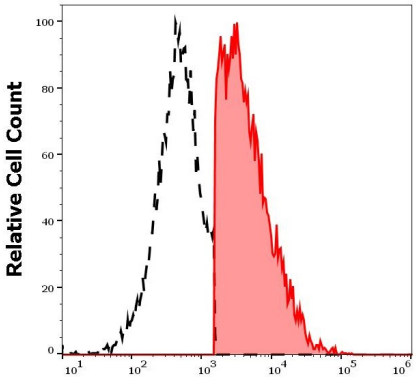
Gene Symbol	Ly6g
Gene Full Name	lymphocyte antigen 6 complex, locus G
Background	Ly6G is a component of the myeloid differentiation antigen Gr-1, together with Ly6C. Ly6G is a good marker for detection of peripheral neutrophils. Expression of Gr-1 in bone marrow correlates with granulocyte differentiation 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. _x000D_
Highlight	Related products: Ly6 antibodies; Ly6 ELISA Kits; Ly6 Duos / Panels; Anti-Rat IgG secondary antibodies; Related news: CyTOF-candidate Antibodies New antibody panels and duos for Tumor immune microenvironment Exploring Antiviral Immune Response Anti-SerpinB9 therapy, a new strategy for cancer therapy
Research Area	Mouse Inflammatory Cell Marker antibody; Neurophil Marker antibody; Mouse MDSC Marker antibody; Myeloid-derived suppressor cell antibody
Calculated Mw	12 kDa

Images



ARG63065 anti-Ly6G + Ly6C antibody [RB6-8C5] (Functional Grade) FACS image

Flow Cytometry: Murine splenocyte suspension stained with ARG63065 anti-Ly6G + Ly6C antibody [RB6-8C5] (Functional Grade) at 9 µg/ml dilution, followed by PE-conjugated Donkey anti-Rat antibody.



ARG63065 anti-Ly6G + Ly6C antibody [RB6-8C5] (Functional Grade) FACS image

Flow Cytometry: Separation of murine Ly6G positive cells (red-filled) from Ly6G negative cells (black-dashed). Murine splenocyte suspension stained with ARG63065 anti-Ly6G + Ly6C antibody [RB6-8C5] (Functional Grade) at 9 µg/ml dilution, followed by PE-conjugated Donkey anti-Rat antibody.