

Mouse Ly-6G/Ly-6C (Gr-1) Antibody

Purified *in vivo* GOLD™ Functional Grade

Monoclonal Antibody

Product Information

Product No.: G100
Clone: RB6-8C5
RRID: AB_2737495
Isotype: Rat IgG2b
Storage: Sterile 2-8°C

Product Description

Specificity:

Rat Anti-Mouse GR-1, as known as anti-mouse Ly-6G/Ly-6C (Clone RB6-8C5) has been used to identify peripheral blood neutrophils and deplete granulocytes *in vivo*. This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

Antigen Distribution:

The Gr-1 antigen is present at various levels correlated with granulocyte differentiation and maturation. The Gr-1 antigen is expressed on other myeloid populations, but not on lymphoid or erythroid cells.^{1,2}

Background:

Gr-1 is a 21-25 kD protein. This myeloid differentiation antigen is a glycosylphosphatidylinositol-linked protein expressed on granulocytes and macrophages. Clone RB6-8C5 antibody has been shown to inhibit the binding of the clone 1A8 antibody. Clone 1A8 monoclonal antibody reacts specifically with mouse Ly6G with no reported cross-reactivity with Ly6C.

Known Reactivity Species:

Mouse

Format:

Purified *in vivo* GOLD™ Functional Grade

Immunogen:

Raised against granulocytes of mouse origin

Formulation

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

Purity

≥95% monomer by analytical SEC, >95% by SDS Page

Endotoxin

< 1.0 EU/mg as determined by the LAL method

Storage and Stability

Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C.

Avoid Repeated Freeze Thaw Cycles.

Product Datasheet

www.leinco.com

Product Preparation

Functional grade preclinical antibodies are manufactured in an animal free facility using in vitro cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

FC The suggested concentration for this RB6-8C5 antibody for staining cells in flow cytometry is $\leq 0.06 \mu\text{g}$ per 10^6 cells in a volume of $100 \mu\text{l}$ or $100 \mu\text{l}$ of whole blood. Titration of the reagent is recommended for optimal performance for each application.

Other Applications Reported in Literature:

CyTOF®

Depletion Clone RB6-8C5 is suitable for In vivo depletion. However, it has been reported that clone RB6-8C5 is not suitable for depletion of hepatic myeloid derived suppressor cells (MDSCs).

IHC (Frozen)

IHC (Paraffin)

IP

WB

Country of Origin

USA

References

1. Yokoyama, Hitoshi et al. J Am Soc Nephrol. 2003 Oct;14(10):2503-15. PubMed
2. Fleming, T. J. et al. (1993) J. of Immunol. 151(5):2399
3. Hestdal, K. et al. (1991) J. of Immunol. 147(1):22
4. Brummer, E. et al. (1984) J. Leuko. Bio. 36:505