

MONOCLONAL ANTIBODY

# FITC labeled Rat IgG2b Isotype control

Code No.	Clone	Subclass	Quantity	Concentration
M090-4	3G8	Rat IgG2b	1 mL	50 µg/mL

**SOURCE:** This antibody was purified from hybridoma (clone 3G8) supernatant using protein G agarose. This hybridoma was established by fusion of mouse myeloma cell P3U1 with rat lymph nodes immunized with KLH.

**FORMULATION:** 50 µg IgG in 1 mL volume of PBS containing 1% BSA and 0.09 % NaN<sub>3</sub>.

\*Azide may react with copper or lead in plumbing system to form explosive metal azides. Therefore, always flush plenty of water when disposing materials containing azide into drain.

**STORAGE:** This antibody solution is stable for one year from the date of purchase when stored at 4°C.

**REACTIVITY:** No specific binding detected on human peripheral blood leukocytes.

**APPLICATIONS:**

Flow cytometry: This antibody can be used as a negative isotypic control. The concentration will depend on condition.

Detailed procedure is provided in the following **PROTOCOL.**

**INTENDED USE:**

For Research Use Only. Not for use in diagnostic procedures.

**RELATED PRODUCTS:**

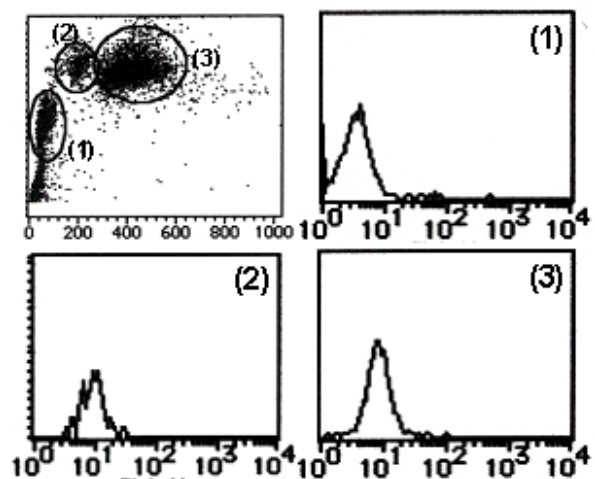
- M075-3 Mouse IgG1 Isotype control (2E12)
- M076-3 Mouse IgG2a Isotype control (6H3)
- M077-3 Mouse IgG2b Isotype control (3D12)
- M078-3 Mouse IgG3 Isotype control (6A3)
- M079-3 Mouse IgM Isotype control (7E10)
- M080-3 Rat IgG1 Isotype control (1H5)
- M081-3 Rat IgG2a Isotype control (2H3)
- M082-3 Rat IgG2c Isotype control (6E12)
- M090-3 Rat IgG2b Isotype control (3G8)
- M075-4 FITC Labeled mouse IgG1 Isotype control (2E12)
- M076-4 FITC Labeled mouse IgG2a Isotype control (6H3)
- M077-4 FITC Labeled mouse IgG2b Isotype control (3D12)
- M078-4 FITC Labeled mouse IgG3 Isotype control (6A3)
- M079-4 FITC Labeled mouse IgM Isotype control (7E10)
- M080-4 FITC Labeled Rat IgG1 Isotype control (1H5)
- M081-4 FITC Labeled Rat IgG2a Isotype control (2H3)
- M082-4 FITC Labeled Rat IgG2c Isotype control (6E12)

**PROTOCOL:**

**Flow cytometric analysis for whole blood cells**

We usually use Fisher tubes or equivalents as reaction tubes for all step described below.

- 1) Add 20 µL of FITC labeled Rat IgG2b Isotype control (50 µg/mL) into each tube.
- 2) Add 100 µL of whole blood into each tube. Mix well, and incubate for 30 minutes at room temperature (20~25°C).
- 3) Add 1 mL of washing buffer [PBS containing 2% fetal calf serum (FCS) and 0.1% NaN<sub>3</sub>] followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration.
- 4) Lyse with OptiLyse C (for analysis on Beckman Coulter instruments) or OptiLyse B (for analysis on BD instruments), using the procedure recommended in the respective package inserts.
- 5) Add 1 mL of H<sub>2</sub>O to each tube and incubate for 10 minutes at room temperature.
- 6) Centrifuge at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration.
- 7) Add 1 mL of washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration.
- 8) Resuspend the cells with 500 µL of the washing buffer and analyze by a flow cytometer.



**Flow cytometric analysis of Isotype control rat IgG2b expression in lymphocyte (1), monocyte (2) and granulocyte (3).**

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