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Not for use in diagnostic procedures.

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Anti-FcεR1γ (FcRγ) (Mouse) mAb -Alexa Fluor® 488

CODE No. M191-A48

CLONALITY Monoclonal
CLONE 1D6
ISOTYPE Mouse IgG1 κ
QUANTITY 100 µL, 1 mg/mL

SOURCE Purified IgG from hybridoma supernatant
FORMULATION PBS containing 1% BSA and 0.1% ProClin 150
STORAGE This antibody solution is stable for one year from the date of purchase when stored at 4°C.

APPLICATIONS-CONFIRMED

Immunocytochemistry	1 µg/mL
Flow cytometry	1 µg/mL

SPECIES CROSS REACTIVITY

Species	Human	Mouse	Rat	Hamster
Cells	Not tested	RAW264, Mouse peritoneal macrophage	Not tested	Not tested
Reactivity		+		

Entrez Gene ID 14127 (Mouse)

REFERENCES

1) Yamasaki, S., *et al.*, *Nat. Immunol.* **9**, 1179-1188 (2008)
2) Cao, L., *et al., J.Immunol.* **179**, 5864-5876 (2007)
3) Sato, K., *et al.*, *J. Biol. Chem.* **281**, 38854-38866 (2006)
4) Ra, C., *et al.*, *J. Biol. Chem.* **264**, 15323-15327 (1989)

For more information, please visit our website at https://ruo.mbl.co.jp/.

LABEL LICENSES:

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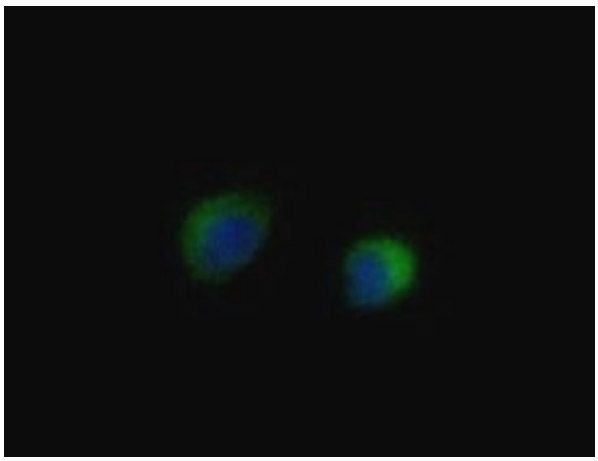
The descriptions of the following protocols are examples. Each user should determine the appropriate condition.

Immunocytochemistry

1) Spread the cells on a glass slide, then incubate in a CO_2 incubator overnight.
2) Remove the culture supernatant by careful aspiration.
3) Fix the cells by immersing the slide in 4% paraformaldehyde (PFA)/PBS for 10 min. at room temperature (20~25°C).
4) Prepare a wash container such as a 500 mL beaker with a magnetic stirrer. Then wash the fixed cells on the glass slide by soaking the slide with a plenty of PBS in the wash container for 5 min. Take care not to touch the cells. Repeat wash once more.
5) Immerse the slide in 0.2% Triton X-100/PBS for 10 min. at room temperature.
6) Wash the slide twice in PBS for 5 min. each.
7) Add Clear Back (human Fc receptor blocking reagent, MBL, code no. MTG-001) to the cell and incubate for 5 min. at room temperature.
8) Add the primary antibody diluted with 2% fetal calf serum (FCS)/PBS as suggested in the **APPLICATIONS** onto the cells and incubate for 1 hr. at room temperature. (Optimization of antibody concentration or incubation condition is recommended if necessary.)
9) Wash the slide twice in PBS for 5 min. each.
10) Wipe excess liquid from slide but take care not to touch the cells. Never leave the cells to dry.
11) Counter stain with DAPI for 5 min. at room temperature.
12) Wash the slide twice in PBS for 5 min. each.
13) Promptly add mounting medium onto the slide, then put a cover slip on it.

(Positive control for Immunocytochemistry; RAW264)



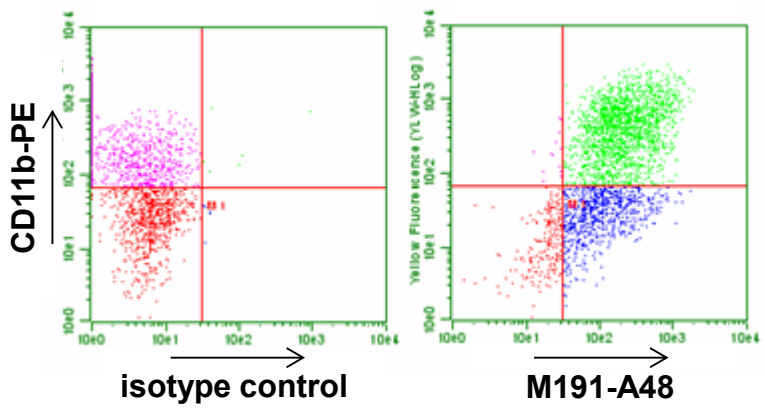
Immunocytochemistry detection of mouse FcεR1γ

Cell: RAW264
Green: Anti-FcεR1γ (FcRγ) (Mouse) mAb (MBL, code no. M191-A48)
Blue: DAPI

Flow cytometric analysis

1) Wash the cells (5 x 10^5 cells/sample) 3 times with 1 mL of washing buffer [PBS containing 2% fetal calf serum (FCS)].
2) Add 4% paraformaldehyde (PFA)/PBS to the cell pellet after tapping. Mix well, then fix the cells for 10 min. at room temperature.
3) Wash the cells twice with 1 mL of washing buffer.
4) Add 0.2% Triton X-100 in PBS to the cell pellet after tapping. Mix well, then permeabilize the cells for 10 min. at room temperature.
5) Wash the cells twice with 1 mL of washing buffer.
6) Add 20 µL of Clear Back (human Fc receptor blocking reagent, MBL, code no. MTG-001) to the cell pellet after tapping. Mix well and incubate for 5 min. at room temperature.
7) Add 40 µL of the primary antibody at the concentration as suggested in the **APPLICATIONS** diluted in the washing buffer Mix well and incubate for 30 min. at room temperature.
8) Wash the cells once with 1 mL of washing buffer.
9) Add PE-labeled anti-mouse CD11b antibody diluted in the washing buffer. Mix well and incubate for 30 min. at room temperature.
10) Wash the cells once with 1 mL of washing buffer.
11) Resuspend the cells with 500 µL of the washing buffer and analyze by a flow cytometer.

(Positive control for Flow cytometry; Mouse peritoneal macrophage)



Flow cytometric detection of mouse FcεR1γ

Cells: Mouse peritonea macrophage
Left: Mouse IgG1 (isotype control) (MBL, code no. M075-A48)
Right: Anti- FcεR1γ(FcRγ) (Mouse) mAb (MBL, code no. M191-A48)