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Not for use in diagnostic procedures.



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
FORMURATION 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)

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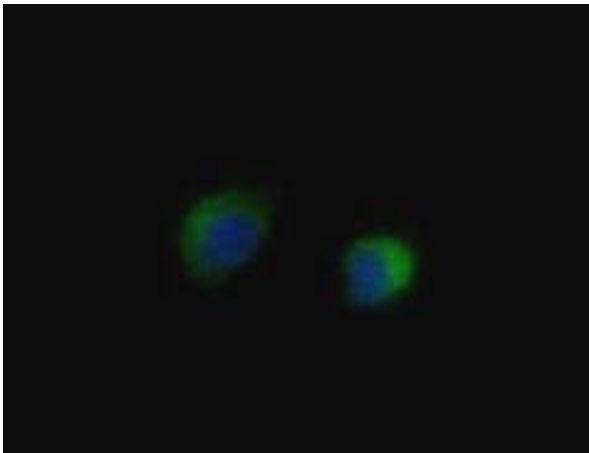
RELATED PRODUCTS

- PM068 Anti-FcεR1γ (FcRγ) (Mouse) pAb
- M191-3 Anti-FcεR1γ (FcRγ) (Mouse) mAb (1D6)
- M191-A59 Anti-FcεR1γ (FcRγ) (Mouse) mAb
-Alexa Fluor[®] 594 (1D6)
- M191-A64 Anti-FcεR1γ (FcRγ) (Mouse) mAb
-Alexa Fluor[®] 647 (1D6)
- D266-3 Anti-Mincle (Mouse) mAb (1B6)
- D266-6 Anti-Mincle (Mouse) mAb-Biotin (1B6)
- D266-3M2 Anti-Mincle (Mouse) mAb FG (1B6)
- D292-3 Anti-Mincle (Mouse) mAb (4A9)
- D292-3M2 Anti-Mincle (Mouse) mAb FG (4A9)
- D303-3 Anti-FcμR (Toso/Faim3) (Mouse) mAb (#4B5)
- D303-4 Anti-FcμR (Toso/Faim3) (Mouse) mAb-FITC
(#4B5)

Immunocytochemistry

- 1) Spread the cells on a glass slide, then incubate in a CO₂ incubator for one night.
- 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 another wash once more.
- 5) Immerse the slide in 0.2% Triton X-100/PBS for 10 min. at room temperature.
- 6) Wash the slide 2 times 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 2 times 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 2 times 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)



Immunocytochemical detection of mouse FcεR1γ

Cells: RAW264

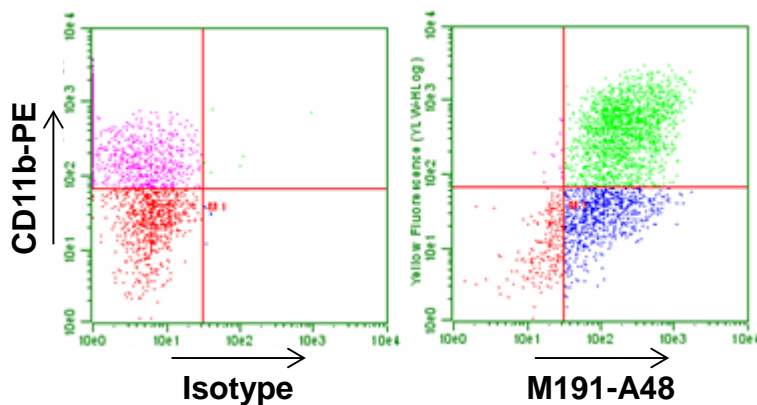
Green: M191-A48

Blue: DAPI

Flow cytometric analysis

- 1) Wash the cells (5×10^5 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 2 times 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 2 times with 1 mL of washing buffer.
- 6) Add 20 μ L 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 μ L 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 1 time 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 1 time with 1 mL of washing buffer.
- 11) Resuspend the cells with 500 μ L of the washing buffer and analyze by a flow cytometer.

(Positive control for Flow cytometry; Mouse peritoneal macrophage)



Flow cytometric detection of mouse Fc ϵ R1 γ

Cells: Mouse peritonea macrophage
Left: Mouse IgG1 (isotype control) (M075-A48)
Right: M191-A48