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Not for use in diagnostic procedures.

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Anti-GP2 (Glycoprotein 2) (Mouse) mAb -Alexa Fluor® 488

CODE No. D278-A48

CLONALITY Monoclonal
CLONE 2F11-C3
ISOTYPE Rat IgG2a κ
QUANTITY 100 µL, 1 mg/mL

SOURCE Purified IgG from hybridoma supernatant
IMMUNOGEN Mouse GP2, extracellular domain (recombinant, human Fc fusion protein)
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

Immunohistochemistry	5 µg/mL
Flow cytometry	1 µg/mL

SPECIES CROSS REACTIVITY

Species	Human	Mouse	Rat	Hamster
Tissues	Peyer's patches	Peyer's patches	Not tested	Not tested
Reactivity	–	+		

Entrez Gene ID 67133 (Mouse)

REFERENCES

1) Lapthorne, S., *et al.*, *Immunology*, in press
2) Donaldson, D. S., *et al.*, *Mucosal.Immunol.* **5**, 216-225 (2012)
3) Fukuda, S., *et al.*, *J. Vis. Exp.* **58**, e3225 (2011)
4) Ebisawa, M., *et al.*, *Int. Immunol.* **23**, 261-269 (2011)
5) Hase, K., *et al.*, *Nature* **462**, 226-230 (2009)

This clone is used in these references.

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RELATED PRODUCTS

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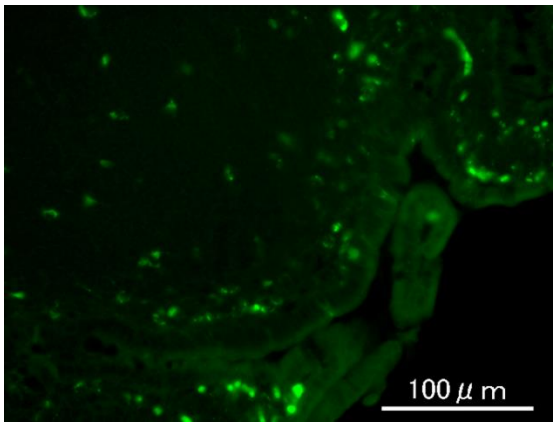
The descriptions of the following protocols are examples. Each user should determine the appropriate condition.

Immunohistochemical detection for paraffin embedded section

1) Deparaffinize the sections with Xylene 3 times for 3 min. each.
2) Wash the slides with Ethanol 3 times for 3 min. each.
3) Wash the slides 1 time in PBS-T (0.05% Tween-20 in PBS) for 5 min.
4) Remove the slides from PBS-T, wipe gently around each section and cover tissues with 0.5% blocking reagent (Parkin Elmer) in PBS for 30 min. to block non-specific staining. Do not wash.
5) Tip off the blocking buffer, wipe gently around each section and cover tissues with primary antibody diluted with 0.5% blocking reagent in PBS as suggested in the **APPLICATIONS**. (Optimization of antibody concentration or incubation condition is recommended if necessary.)
6) Incubate the sections overnight at 4°C.
7) Wash the slides 3 times in PBS-T for 5 min. each.
8) Now ready for mounting.

(Positive control for Immunohistochemistry; Mouse Peyer's patches)



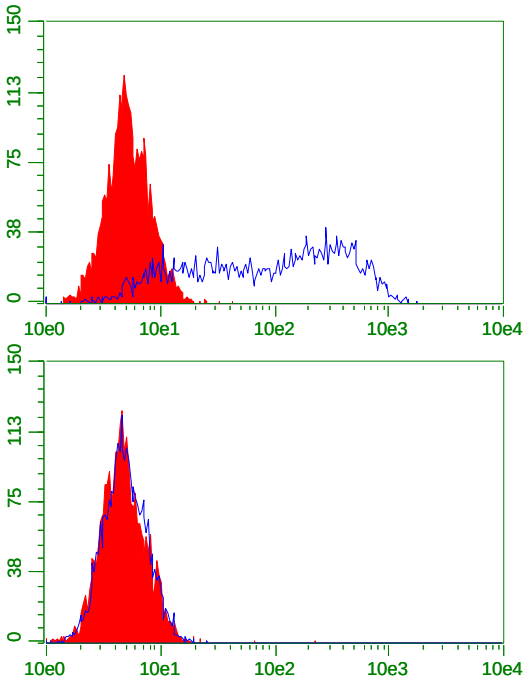
Immunohistochemical detection of mouse GP2 in Peyer's patches

Strain: C57BL/6
Green: D278-A48

Flow cytometric analysis

1) Wash the cells (5 x 10^5 cells/sample) 1 time with 1 mL of washing buffer [PBS containing 2% fetal calf serum (FCS)].
2) 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.
3) 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. (Optimization of antibody concentration or incubation condition is recommended if necessary.)
4) Wash the cells 2 times with 1 mL of washing buffer.
5) Resuspend the cells with 500 µL of the washing buffer and analyze by a flow cytometer.

(Positive control for Flow cytometry; Transfectant)



Flow cytometric detection of mouse GP2 in transfectant

Cell
Upper: Mouse GP2/293T
Lower: Parental cell (293T)
Antibody
Open: D278-A48
Closed: Isotype control (M081-A48)