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

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Anti-ASC (TMS1) (Human) mAb -Alexa Fluor™ 647

CODE No. D086-A64

CLONALITY Monoclonal
CLONE 23-4
ISOTYPE Mouse IgG1
QUANTITY 100 µL, 1 mg/mL

SOURCE Purified IgG from hybridoma supernatant
IMMUNOGEN Triton X-100 insoluble fraction of retinoic acid-treated HL-60 cells
FORMULATION PBS containing 1% BSA and 0.09% NaN_3

*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.

APPLICATION-CONFIRMED

Flow cytometry 5 µg/mL

SPECIES CROSS REACTIVITY

Species	Human	Mouse	Rat	Hamster
Cells	THP-1, HL-60	Not tested	Not tested	Not Tested
Reactivity	+			

Entrez Gene ID 29108 (Human)

REFERENCES

1) Bryan, N. B., *et al., J. Inflamm. (Lond.)* **7**, 23 (2010)
2) Mayor, A., *et al., Nat. Immunol.* **8**, 497-503 (2007)
3) Hasegawa, M., *et al., J. Biol. Chem.* **280**, 15122-15130 (2005)
4) Terasawa, K., *et al., Clin. Cancer Res.* **10**, 2000-2006 (2004)
5) Stehlik, C., *et al., J. Immunol.* **171**, 6154-6163 (2003)
6) Stehlik, C., *et al., J. Exp. Med.* **196**, 1605-1615 (2002)
7) Masumoto, J., *et al., J. Histochem. Cytochem.* **49**, 1269-1275 (2001)
8) Masumoto, J., *et al., J. Biol. Chem.* **274**, 33835-33838 (1999)

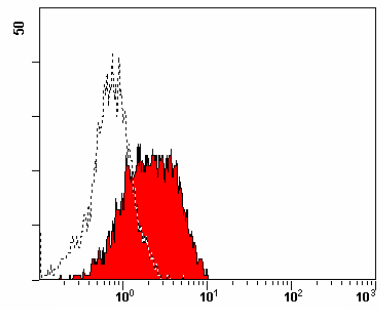
For more information, please visit our website at https://ruo.mbl.co.jp/.

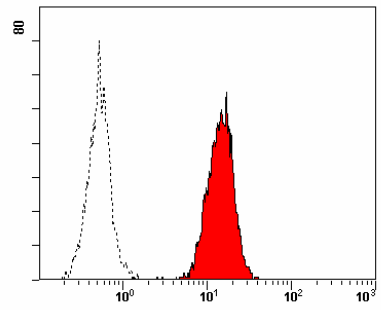
The descriptions of the following protocols are examples. Each user should determine the appropriate condition.

Flow cytometric analysis

1) Wash the cells (5 x 10^5 cells/sample) once with 1 mL of washing buffer (PBS containing 2% fetal calf serum (FCS)).
2) Add 4% paraformaldehyde/PBS to the cell pellet after tapping. Mix well, then fix the cells for 10 min. at room temperature.
3) Wash the cells once 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 once 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 **APPLICATION** diluted in the washing buffer. Mix well and incubate for 30 min. at room temperature.
8) Wash the cells twice with 1 mL of washing buffer.
9) Resuspend the cells with 500 µL of the washing buffer and analyze by a flow cytometer.

(Positive controls for Flow cytometry; HL-60, THP-1)





Flow cytometric detection of ASC

Cell
Upper: HL-60
Lower: THP-1
Antibody
Open: isotype control (M075-A64)
Closed: D086-A64