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

MONOCLONAL ANTIBODY

Anti-Fas (CD95) (Human) mAb-FITC

Code No.	Clone	Subclass	Quantity	Concentration
MD-10-4	UB2	Mouse IgG1	100 µL	500 µg/mL

BACKGROUND: It is now widely accepted that apoptosis plays an important role in the selection of immature thymocytes and Ag-primed peripheral T cells. Fas antigen is a cell-surface protein that mediates apoptosis. It is expressed in various tissues including the thymus and has structural homology with a number of cell-surface receptors, including tumor necrosis factor receptor and nerve growth factor receptor.

SOURCE: This antibody was purified from ascites fluid (clone UB2) by ammonium sulfate precipitation and affinity chromatography on protein A agarose. This hybridoma was established by fusion of mouse myeloma cell NS-1 with Balb/c mouse splenocyte immunized with recombinant human Fas.

FORMULATION: 50 µg IgG in 100 µL volume of 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.

REACTIVITY: This antibody recognizes the human Fas antigen specifically. Clone UB2 does not recognize the mouse Fas antigen.

APPLICATION:
Flow cytometry; 10 µg/mL
*Please refer to the data sheet (MBL; code no. MD-10-3) for other applications.

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

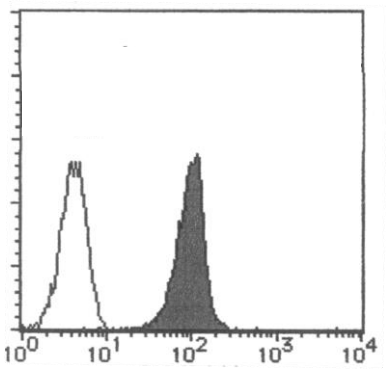
SPECIES CROSS REACTIVITY:

Species	Human	Mouse	Rat
Cell	Transfectant	Transfectant	Not tested
Reactivity on FCM	+	-	

INTENDED USE:
For Research Use Only. Not for use in diagnostic procedures.

REFERENCES:
1) Villa-Morales, M., *et al.*, *Cell Death Dis.* **5**, e1110 (2014)
2) Tanaka, T., *et al.*, *Int. J. Oncol.* **41**, 1837-1844 (2012)
3) Ennaciri, J., *et al.*, *Pediatr Res.* **59**, 7-12 (2006)
4) Hamasu, T., *et al.*, *J. Radiat. Res.* **46**, 103-110 (2005)
5) Yamauchi, R., *et al.*, *J. Invest. Dermatol.* **122**, 477-483 (2004)
6) Yuki, H., *et al.*, *Free Radic. Res.* **37**, 631-643 (2003)
7) Shinohara, H., *et al.*, *Cancer Res.* **60**, 1766-1772 (2000)
8) Ohashi, M., *et al.*, *J. Leukoc. Biol.* **67**, 374-380 (2000)
9) Morimoto, Y., *et al. Clin. Exp. Immunol.* **116**, 84-89 (1999)
10) Sata, M.. and Walsh, K., *J. Clin. Invest.* **102**, 1682-1689 (1998)
11) Yanagisawa, J., *et al.*, *J. Biol. Chem.* **272**, 8539-8545 (1997)
12) Watanabe-Fukunaga, R., *Nature* **356**, 314-317 (1992)
13) Ito, N., *et al.*, *Cell* **66**, 233-243 (1991)
14) Kobayashi, N., *et al.*, *PNAS.* **87**, 9620-9624 (1990)
15) Yonehara, S., *et al.*, *J. Exp.Med.* **169**, 1747-1756 (1989)

This antibody has been used in reference number 1) -11).



Flow cytometric analysis of human Fas expression on transfectant. *Open histogram indicates the reaction of isotypic control to the cells. Shaded histogram indicates the reaction of MD-10-4 to the cells.*

PROTOCOL:

Flow cytometric analysis for floating cells

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

1) Wash the cells 3 times with washing buffer [PBS containing 2% fetal calf serum (FCS) 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.
2) Resuspend the cells with washing buffer (5 x 10^6 cells/mL).

MBL MEDICAL & BIOLOGICAL LABORATORIES CO., LTD.
URL http://ruo.mbl.co.jp
e-mail support@mbl.co.jp, TEL 052-238-1904

3) Add 50 μL of the cell suspension into each tube, and centrifuge at 500 x g for 1 minute at room temperature (20~25°C). Remove supernatant by careful aspiration.
4) 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 minutes at room temperature.
5) Add 20 μL of the primary antibody at the concentration as suggested in the **APPLICATION** diluted in the washing buffer. Mix well and incubate for 30 minutes at room temperature.
6) Add 1 mL of the washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration.
7) Resuspend the cells with 500 μL of the washing buffer and analyze by a flow cytometer.

(Positive control for Flow cytometry; Transfectant)

RELATED PRODUCTS:

SY-001	Anti-Fas (CD95) mAb (CH-11)
MD-10-3	Anti-Fas (CD95) (Human) mAb (UB2)
MD-10-5	Anti-Fas (CD95) (Human) mAb-PE (UB2)
MD-10-A48	Anti-Fas (CD95) (Human) mAb -Alexa Fluor® 488 (UB2)
MD-11-3	Anti-Fas (CD95) (Human) mAb (ZB4)
D026-3	Anti-Fas (CD95) (Mouse) mAb (RMF2)
D027-3	Anti-Fas (CD95) (Mouse) mAb (RMF6)
D041-3	Anti-Fas Ligand (CD178) (Human) mAb (4H9)
D041-4	Anti-Fas Ligand (CD178) (Human) mAb -FITC (4H9)
D041-5	Anti-Fas Ligand (CD178) (Human) mAb-PE (4H9)
D041-6	Anti-Fas Ligand (CD178) (Human) mAb -Biotin (4H9)
D042-3	Anti-Fas Ligand (CD178) (Human) mAb (4A5)
D057-3	Anti-Fas Ligand (CD178) (Mouse) mAb (FLIM58)
D057-4	Anti-Fas Ligand (CD178) (Mouse) mAb-FITC (FLIM58)
D057-6	Anti-Fas Ligand (CD178) (Mouse) mAb-Biotin (FLIM58)
D069-3	Anti-Fas Ligand (CD178) (Mouse) mAb (FLIM4)
5255	sFas Ligand ELISA Kit
M075-4	Mouse IgG1 (isotype control)-FITC (2E12)
MTG-001	Clear Back