

MONOCLONAL ANTIBODY

PE labeled Anti-Fas/CD95

Code No.	Clone	Subclass	Quantity
MD-10-5	UB2	Mouse IgG1	50 tests

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 tests in 1 mL volume of PBS containing 1% BSA and 0.09% NaN₃.

*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.

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

APPLICATION:

Flow cytometry: 20 µL (ready for use)

*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	+	-	

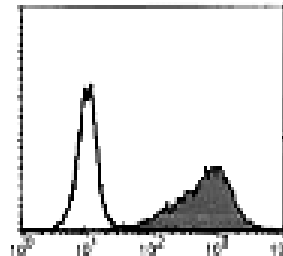
INTENDED USE:

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

REFERENCES:

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- 9) Kuwano, K., *et al.*, *Am. J. Respir. Cell Mol. Biol.* **20**, 53-60 (1999)
- 10) Dai, C. H., *et al.*, *Blood* **91**, 1235-1242 (1998)
- 11) Ando, K., *et al.*, *J. Immunol.* **158**, 5283-5291 (1997)
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- 13) Hata, H., *et al.*, *Blood* **86**, 1939-1945 (1995)
- 14) Watanabe-Fukunaga, R., *Nature* **356**, 314-317 (1992)
- 15) Ito, N., *et al.*, *Cell* **66**, 233-243 (1991)
- 16) Kobayashi, N., *et al.*, *PNAS.* **87**, 9620-9624 (1990)
- 17) Yonehara, S., *et al.*, *J. Exp. Med.* **169**, 1747-1756 (1989)

Clone UB2 is used in reference number 1) - 13).



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-10-5 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 0.1% NaN₃].
- 2) Resuspend the cells with washing buffer (5 x 10⁶ cells/mL).
- 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 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 minutes at room temperature.
- 5) Add 20 μ L of PE labeled anti-Fas monoclonal antibody (UB2). 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 μ L of the washing buffer and analyze by a flow cytometer.

(Positive control for Flow cytometry; transfectant)

RELATED PRODUCTS:

- SY-001 Anti-Human Fas (CD95) (CH-11)
- MD-10-3 Anti-Human Fas (CD95) (UB2)
- MD-10-4 FITC labeled anti-Human Fas (CD95) (UB2)
- MD-10-5 PE labeled anti-Human Fas (CD95) (UB2)
- MD-11-3 anti-Human Fas (CD95) (ZB4)
- D026-3 anti-Mouse Fas (CD95) (RMF2)
- D027-3 anti-Mouse Fas (CD95) (RMF6)
- D041-3 anti-Human Fas Ligand (4H9)
- D041-4 FITC labeled anti-Human Fas Ligand (4H9)
- D041-5 PE labeled anti-Human Fas Ligand (4H9)
- D041-6 Biotin labeled anti-Human Fas Ligand (4H9)
- D042-3 anti-Human Fas Ligand (4A5)
- D057-3 anti-Mouse Fas Ligand (FLIM58)
- D057-4 FITC labeled anti-Mouse Fas Ligand (FLIM58)
- D057-6 Biotin labeled anti-Mouse Fas Ligand (FLIM58)
- D069-3 anti-Mouse Fas Ligand (FLIM4)