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

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 0.1% ProClin150.

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:
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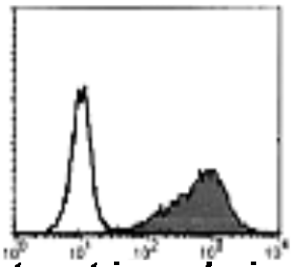

Flow cytometric analysis of human Fas expression on transfectant. Open histogram indicates the reaction of isotypic control to the cells. Shaded histogram indicates the reaction of MD-10-5 to the cells.

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

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

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% NaN_3].
2) Resuspend the cells with washing buffer (5 x 10^6 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 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 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 µL of the washing buffer and analyze by a flow cytometer.

(Positive control for Flow cytometry; transfectant)

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