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

MONOCLONAL ANTIBODY

Anti-Fas (CD95) (Human) mAb

Code No.	Clone	Subclass	Quantity	Concentration
MD-10-3	UB2	Mouse IgG1	100 µL	1 mg/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: 100 µg IgG in 100 µL volume of PBS containing 50% glycerol, pH 7.2. No preservative is contained.

STORAGE: This antibody solution is stable for one year from the date of purchase when stored at -20°C.

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

APPLICATIONS:

Western blotting; Not tested
Immunoprecipitation; Not tested
Immunohistochemistry; 10-20 µg/mL
It is reported that this monoclonal antibody can be used in frozen sections and paraffin embedded sections in reference number 1), 11) and 12), respectively.
Immunocytochemistry; Not tested
Flow cytometry; 10 µg/mL (final concentration)

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

SPECIES CROSS REACTIVITY:

Species	Human	Mouse	Rat
Cells	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) Shinohara, H., *et al., Cancer Res.* **60**, 1766-1772 (2000)
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11) Hiromatsu, Y., *et al., J. Clin. Endocrinol. Metab.* **84**, 2896-2902 (1999) [IHC]
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14) Ando, K., *et al., J. Immunol.* **158**, 5283-5291 (1997)
15) Boirivant, M., *et al., J. Clin. Invest.* **98**, 2616-2622 (1996)
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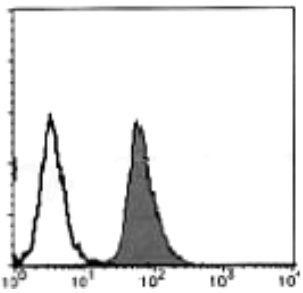
Clone UB2 is used in reference number 1) - 16).



Flow cytometric analysis of human Fas expression on transfectant
■ MD-10-3
□ isotype control

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].

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

*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).
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 40 μL of the primary antibody at the concentration as suggest in the **APPLICATIONS** 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) Add 30 μL of 1:100 Anti-IgG (Mouse) pAb-FITC (MBL; code no. 238) diluted with the washing buffer. Mix well and incubate for 15 minutes at room temperature.
8) 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.
9) 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-10-4	Anti-Fas (CD95) (Human) mAb-FITC (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
M075-3	Mouse IgG1 (isotype control)
MTG-001	Clear Back