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MONOCLONAL ANTIBODY

Alexa Fluor® 488 labeled Anti-Fas/CD95

Code No.CloneSubclassQuantityConcentrationMD-10-A48UB2Mouse IgG1100 μg1 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 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 is stable for one year from the date of shipment 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 (final concentration)
*Please refer to the data sheet (MBL code no. MD-10-3)

for other applications.

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

SPECIES CROSS REACTIVITY:

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Species	Human	Mouse	Rat
Cells	lymphocyte, monocyte, granulocyte, transfectant	transfectant	Not Tested
Reactivity on FCM	+	1	

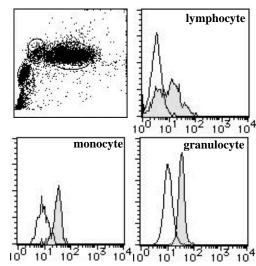
INTENDED USE:

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Clone UB2 is used in reference number 1) - 14).



Flow cytometric analysis of Fas expression on peripheral blood lymphocyte, monocyte and granulocyte. Open histograms indicate the reaction of isotypic control to the cells. Shaded histograms indicate the reaction of MD-10-A48 to the cells.

PROTOCOLS:

Flow cytometric analysis for whole blood cells

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

- 1) Add 50 µL of the primary antibody at the concentration as suggested in the APPLICATION diluted with the washing buffer [PBS containing 2% fetal calf serum (FCS) and 0.1% NaN₃] into each tube.
- 2) Add 50 µL of whole blood into each tube. Mix well, and incubate for 30 minutes at room temperature (20~25 °C).
- 3) Add 1 mL of washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration.
- 4) Lyse with OptiLyse C (for analysis on Beckman Coulter instruments) or OptiLyse B (for analysis on BD instruments), using the procedure recommended in the respective package inserts.
- 5) Add 1 mL of H₂O to each tube and incubate for 10 minutes at room temperature.
- 6) Centrifuge at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration.
- 7) Add 1 mL of washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration.
- 8) Resuspend the cells with 500 µL of the washing buffer and analyze by a flow cytometer.

(Positive controls for Flow cytometry; lymphocyte, monocyte, granulocyte)

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 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 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.

RELATED PRODUCTS:

- D038-3 anti-Bcl-2 (83-8B)
- D038-5 PE labeled anti-Bcl-2 (83-8B)
- K0154-3 anti-mouse Bcl-2 (10C4)
- M010-3 anti-Bax (4F11)
- K0151-3 anti-Bax (5B7)
- K0152-3 anti-Bax (6A7)
- K0153-3 anti-Bcl-xL (2H12)
- M073-3 anti-Caspase-2 (4F8)
- anti-Caspase-3 (1F3) M097-3
- K0197-3 anti-Caspase-3 (AMI-3-1-11)
- M087-3 anti-Caspase-3 (1F9)
- M088-3 anti-Caspase-3 (7D12)
- M029-3 anti-Caspase-4 (4B9)
- M060-3 anti-Caspase-5 (4F7)
- M070-3 anti-Caspase-6 (3E8)
- M053-3 anti-Caspase-7 (4G2)
- M032-3 anti-Caspase-8 (5F7)
- M058-3 anti-Caspase-8 (5D3)
- M054-3 anti-Caspase-9 (5B4)
- M059-3 anti-Caspase-10 (4C1)
- K0206-3 anti-Caspase-12 (14F7)
- K0207-3 anti-Caspase-12 (14F4)
- K0193-3 anti-Caspase-14 (1-71)
- M028-3 anti-Mouse TRAF1 (3D4)
- anti-Bag-1 (4A2) M030-3
- M031-3 anti-TRADD (3E11)
- M033-3 anti-FADD (1F7)
- M035-3 anti-FADD (4G3)
- M037-3 anti-DFF45/ICAD (6B8)
- M044-3 anti-XIAP (2F1)
- M056-3 anti-RAIDD (4B12)
- M072-3 anti-BID (5C9) M074-3
- anti-Apaf-1 (5C1) M083-3 anti-AcinusL (3H8)
- M112-3 anti-mouse TRAF2 (6F8)
- 592 anti-mouse TRAF2 (polyclonal)
- 597 anti-mouse TRAF6 (polyclonal)
- M092-3 anti-TRAF6 (1F8)
- SY-001 anti-Fas/CD95 (CH-11)
- MD-10-3 anti-Fas/CD95 (UB2)
- D026-3 anti-mouse Fas/CD95 (RMF2)
- D027-3 anti-mouse Fas/CD95 (RMF6)
- D041-3 anti-human FasL/CD178 (4H9)
- D041-4 FITC labeled anti-human FasL/CD178 (4H9)
- D041-5 PE labeled anti-human FasL/CD178 (4H9)
- D041-6 Biotin labeled anti-human FasL/CD178 (4H9)
- D042-3 anti-human FasL/CD178 (4A5)
- D057-3 anti-mouse FasL/CD178 (FLIM58)
- FITC labeled anti-mouse FasL/CD178 (FLIM58) D057-4
- D057-6 Biotin labeled anti-mouse FasL/CD178 (FLIM58)
- D069-3 anti-mouse FasL/CD178 (FLIM4)
- D086-3 anti-ASC (23-4)
- D132-3 CD279/PD-1 (J110)
- D132-4 FITC labeled CD279/PD-1 (J110)
- D133-3 CD279/PD-1 (J105)
- D230-3 CD274/PD-L1 (27A2)
- D231-3 Mouse CD273/PD-L2 (54-1)

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D161-3 anti-MFG-E8 (2422) D199-3 anti-MFG-E8 (18A2-G10) D184-3 anti-Granulysin (RB1) D185-3 anti-Granulysin (RC8) Biotin labeled anti-Granulysin (RC8) D185-6 anti-Granulysin (RF10) D186-3 D200-3 CD257/BAFF/BLyS (1D6) D200-4 FITC labeled CD257/BAFF/BLyS (1D6) D201-3 CD268/BAFF-R/BR3 (8A7) D201-4 FITC labeled CD268/BAFF-R/BR3 (8A7) D201-5 PE labeled CD268/BAFF-R/BR3 (8A7) K0033-3 anti-DR3 (B65) K0033-4 FITC labeled anti-DR3 (B65) K0039-3 CD120a/TNFR1 (H398) K0039-4 FITC labeled CD120a/TNFR1 (H398) K0040-3 CD120b/TNFR2 (80M2) K0040-4 FITC labeled CD120b/TNFR2 (80M2) K0040-5 PE labeled CD20b/TNFR2 (80M2) K0127-3 anti-Daxx (DAXX-01) K0145-3 anti-CD30 (Ber-H2) K0145-4 FITC labeled anti-CD30 (Ber-H2) K0157-3 anti-IKK γ (I- κ B Kinase γ) (DA10-12) K0159-3 anti-IKKγ (I-κB Kinase γ) (EA2-6) K0194-3 anti-HtrA2/Omi (18-1-83) CM001-1 anti-Cytochrome c (1E4) PM004 anti-Smac/DIABLO (polyclonal) anti-Vimentin Fragment (V1) (polyclonal) PD005 PD006 anti-SET_β (p41/p42) (polyclonal) PD007 anti-SETβ (p42) (polyclonal) PD008 anti-SETβ (p41) (polyclonal) 591 anti-Bad (polyclonal) M075-A48 Alexa Fluor® 488 labeled Mouse IgG1 isotype control (2E12)

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