

Anti-Human CD3/CD16+CD56/CD45/CD19 (33-2A3/3G8/MEM-188/D3-9/A3-B1)



REF



50 test



RUO

FITC/PE/PerCP/APC 3F11656PE45PP119A1-50T

1. PRODUCT DESCRIPTION

Clones: 33-2A3, 3G8, MEM-188, D3/9, A3-B1

Isotype: Mouse IgG2a, Mouse IgG1, Mouse IgG1, Mouse IgG1, Mouse IgG2a

Tested application: flow cytometry

Immunogen: The anti-CD3 monoclonal antibody derives from human leukocytes. The Mouse anti-human CD16 monoclonal antibody derives from human polymorphonuclear leukocytes. The anti-CD56 monoclonal antibody derives from Human U937 cell line. The anti-CD45 monoclonal antibody derives from T cells from leukemic HPB-ALL.

The anti-CD19 monoclonal antibody derives from human tonsil.

Species reactivity: Human

Storage instruction: store in the dark at 2-8 °C

Storage buffer: aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN₃).

Recommended usage: Immunostep's CD3/CD16+CD56/CD45/CD19, is a monoclonal antibody intended for simultaneous detection and enumeration of Natural Killer(CD3-CD16+CD56+CD45+/CD19-) and a subpopulation of T-lymphocytes (CD3+) and B lymphocytes. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 106 cells.

Presentation: liquid

Source: Supernatant proceeding from an in vitro cell culture of a cell hybridoma.

Purification: Affinity chromatography.

2. ANTIGEN DETAILS

Large description: The CD3 monoclonal antibody is directed against the CD3- antigen (T3-antigen), which is expressed on human T lymphocytes.

This CD16 PE, clone 3G8 monoclonal antibody reacts with human and non-human primate CD16, which is also known as the low-affinity FcγRIII.

CD56, expression of neural cell adhesion molecules (N-CAM) provides neurons with a means of attaching to and interacting with other cells and the extracellular matrix.

The CD45 monoclonal antibody is directed against the CD45-antigen, defined T200 or Leucocyte Common Antigen.

The antibody reacts with all cells of the haemopoietic lineage, not with cells of other lineages.

The monoclonal antibody is directed against the CD19-antigen (B4-antigen), which is expressed on human B lymphocytes.

Please, refer to www.immunostep.com technical support for more information.

3. WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties.

Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

5. PROTOCOL

■ Direct Immunofluorescence Cell Surface Staining Protocol

1. Transfer 100 ul (106 cells/test) of the sample to a 12 x 75 mm polystyrene test tube.
2. Add the suggested volume indicated on the antibody vial to the 12x75 mm cytometer tube.
3. Mix well and incubate in the dark at room temperature at 4 °C for 30 minutes or at room temperature (20-25 °C) for 15 minutes.
4. After the incubation period, add 1,5 ml of an erythrocyte-lysing solution and mix. Incubate at room temperature in the darkness (the blood should be well mixed with the lysing solution).
5. Centrifuge tubes at 540xg for 5 minutes. The supernatant is removed with a Pasteur pipette or with a vacuum pump.
6. Resuspend and wash with 3-5 mL of PBS at 540xg for 5 min.
7. After removing the supernatant and resuspending the cell pellet, add 300 µL of PBS and acquire on the flow cytometer are recorded.
8. Analyse on a flow cytometer or store at 2- 8 °C in the dark until analysis. Samples can be run up to 24 hours after lysis.

■ Indirect Immunofluorescence Cell Surface Staining Protocol

1. Transfer 100 ul (106 cells/test) of the sample to a 12 x 75 mm polystyrene test tube
2. Add purified reagent according to manufacturer's recommendation and mix gently with a vortex mixer.
3. Incubate in the dark at room temperature at 4 °C for 30 minutes or at room temperature (20-25 °C) for 15 minutes.
4. Add 2 mL 0.01 mol/L PBS (It betters that it containing 2% bovine serum albumin) and resuspend the cells by using a vortex mixer. Centrifuge at 540xg for 5 min in order to remove the McAb not bound to its antigen.
5. Add a secondary conjugated reagent with some fluorochrome and mix. Incubate at room temperature for 15 min in the dark. The absence of light is necessary as the fluorochrome is photoinstability.
6. After the incubation period, add 1,5 ml of an erythrocyte-lysing solution and mix. Incubate at room temperature in the darkness (the blood should be well mixed with the lysing solution). Centrifuge at 540xg for 5 minutes. The supernatant is removed with a Pasteur pipette or with a vacuum pump.
7. Resuspend and a made a final wash with 3-5 mL of PBS at 540xg for 5 min.
8. After removing the supernatant and resuspending the cell pellet, add 300 µL of PBS and acquire on the flow cytometer are recorded.
9. Analyse on a flow cytometer or store at 2- 8 °C in the dark until analysis. Samples can be run up to 24 hours after lysis.

6. REFERENCES

1. Tunnacliffe A, Olsson C, Traunecker A, Krissansen GW, Karjalainen K, de la Hera A. T3.2. The majority of CD3 epitopes are conferred by the epsilon chain. In: Knapp W, Dörken B, Gilks WR, Rieber EP, Schmidt RE, Stein H, et al., editors. Leucocyte typing IV. White cell differentiation antigens. Proceedings of the 4th International Workshop and Conference; 1989 Feb 21-25; Vienna, Austria. Oxford, New York, Tokyo: Oxford University Press; 1989. p. 295-6.
2. Schmidt RE. M6. CD16 cluster workshop report. In: Schlossman SF, Boumsell L, Gilks W, Harlan JM, Kishimoto T, Morimoto C, et al., editors. Leucocyte typing V. White cell differentiation antigens. Proceedings of the 5th International Workshop and Conference; 1993 Nov 3-7; Boston, USA. Oxford, New York, Tokyo: Oxford University Press; 1995. Volume 2. p. 805-6.
3. Tamm A, Schmidt RE. The binding epitope of human CD16 (FcγRIII) monoclonal antibodies. Implications for ligand binding. J Immunol 1996;157:1576-81.

7. EXPLANATION OF SYMBOLS



Form

REF

Catalog reference



Contains sufficient for <n> test



Quantity per test



Regulatory Status

RUO

Research Use Only



Manufacturer

8. MANUFACTURED BY:

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