Anti-Human CD18 (GRF1)

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FITC	18F-100T	100 test	20 µL/test	0,05 mg/ml	
PE	18PE-100T	100 test	20 µL/test	0,05 mg/ml	RUO
APC	18A-100T	100 test	20 µL/test	0,05 mg/ml	

1. PRODUCT DESCRIPTION

- Clone: GRF1;
 - lsotype: lgGl;

Tested application: flow cytometry;

Immunogen: The anti-CD18 monoclonal antibody derives from human acute lymphoblastic leukemia (ALL) T cells;

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 CD18, clone GRF1 is a monoclonal antibody intended for the identification and enumeration of human LFA-1 beta leukocyte adhesion receptor to (ICAM's) intracellular adhesion melecules using flow cytometry. 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;
- Other names: ITGB2, Cell surface adhesion glycoproteins LFA-1/CR3/p150,95 subunit beta, Complement receptor C3 subunit beta, LAD, LCAMB, LFA-1, MFI7, MFI7; Gene ID: 3689;

Molecular weight: 95 kDa).

2. ANTIGEN DETAILS

Large description: The monoclonal antibody is directed against the CDI8- antigen (Lymphocyte Function associated Antigen-I), which is expressed on mature immunocompetent lymphocytes and their neoplastic counterparts, granulocytes and monocytes.^[1-4]

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.

4. ADDITIONAL INFORMATION

For research use only. Not for diagnostic use.

Not for resale. Immunostep will not be responsible of violations that may occur with the use of this product. Any use of this product other than the specified in this document is strictly prohibited.

Unless otherwise indicated by Immunostep by written authorization, this product is intended for research only and is not to be used for any other purpose, including without limitation, for human or animal diagnostic, therapeutic or commercial purposes.

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

PROTOCOL

5.

- 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.
 - 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 $^\circ C$ for 30 minutes or at room temperature (20-25 $^\circ C)$ for I5 minutes.
 - 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 adquire on the flow cytometer are recorded.
 - 8. Analyse on a flow cytometer or store at 2- 8 $^{\circ}{\rm C}$ in the dark until analysis. Samples can be run up to 24 hours after lysis.

Indirect Immunofluorescence Cell Surface Staining Protocol

- I. 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 $\,^{\circ}\text{C}$ for 30 minutes or at room temperature (20-25 $\,^{\circ}\text{C})$ for 15 minutes.
- 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.
- 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 adquire on the flow cytometer are recorded.
- 9. Analyse on a flow cytometer or store at 2- 8 $^{\circ}\rm C$ in the dark until analysis. Samples can be run up to 24 hours after lysis.

REFERENCES

6.

- Sanchez-Madrid F, Nagy JA, Robbins E, Simon P, Springer TA. A human leukocyte differentiation antigen family with distinct alpha-subunits and a common beta-subunit: the lymphocyte function-associated antigen (LFA-I), the C3bi complement receptor (OKMI/Mac-I), and the p150,95 molecule. J Exp MedI983 Dec 1;158(6):1785-803.
- 2. McMichael AJ. Leucocyte typing III : white cell differentiation antigens. Oxford: Oxford University Press; 1987.
- Corbi AL, Larson RS, Kishimoto TK, Springer TA, Morton CC. Chromosomal location of the genes encoding the leukocyte adhesion receptors LFA-1, Mac-1 and p150,95. Identification of a gene cluster involved in cell adhesion. J Exp Med1988 May 1;167(5):1597-607.
- Schlossman SF. Leucocyte typing V : white cell differentiation antigens : proceedings of the Fifth International Workshop and Conference : held in Boston, USA, 3-7 November, 1993. Oxford: Oxford University Press; 1995.

7. EXPLANATION OF SYMBOLS

 Form

 REF
 Catalog reference

 Contains sufficient for > test

 Quantity per test

 Regulatory Status

 Ruo

 Research Use Only

 [A]

 Concentration

 Manufacturer

MANUFACTURED BY:

8.

BY: IMMUNOSTEP S.L.

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