Anti-Human CD31 (TP1/15)



	REF	∑∑	(>	
PUR PURI FITC PE APC	31PU-01M0 31F-100T 31PE-100	100 test	l mg l μg/test 20 μL/test 20 μL/test 20 μL/test	/ml 1 µg/test 2 mg/ml 2 mg/ml 2 mg/ml	RUO

PRODUCT DESCRIPTION

Clone: TP1/15:

1.

Isotype: IqG2b;

Tested application: flow cytometry;

Immunogen: The anti-CD31 monoclonal antibody derives from PMA and lonomycin activated T cells blast (Human);

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 (NaN₂);

Recommended usage: Immunostep's CD31, clone TP1/15, is a monoclonal antibody intended for the identification and enumeration of PECAM-1 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: PECAM-1, EndoCAM; Gene ID: 5175;

Molecular weight: 130 - 140 kDa.

2. ANTIGEN DETAILS

Large description: The monoclonal antibody is directed against the CD31-antigen, which is expressed on human thrombocytes. The monoclonal antibody reacts with thrombocytes, monocytes/macrophages and granulocytes. In immunohistology the monoclonal antibody reacts with endothelial cells histiocytes (weak) and glomeruli. The antigen is localized at regions of cellcell contacts and may function as an adhesion molecule, mediating adhesion between leucocytes and endothelial cells, leucocytes and platelets, and endothelial cells with other endothelial cells.⁽¹⁻³⁾

З. 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.

ADDITIONAL INFORMATION 4.

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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.

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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.
- 2. Add the suggested volume indicated on the antibody vial to the 12x75mm 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 μ L of PBS and adquire 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 $300 \,\mu L$ of PBS and adquire 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.

REFERENCES

6.

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7. **EXPLANATION OF SYMBOLS**

ι.	Form
REF	Catalog reference
\sum	Contains sufficient for <n> test</n>
\bigcirc	Quantity per test
	Regulatory Status
RUO	Research Use Only
	Manufacturer

8.

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