Anti-Human CD31 (TP1/15)



	REF	Σ	\Diamond	[A]	
PURE	31PU	1 mg	l mg/ml	10 µg/test	
PURE	31PU-01MG	100 µg	l μg/test	10 µg/test	
FITC	31F-100T	100 test	20 μL/test	0,05 mg/ml	RUO
PE	31PE-100T	100 test	20 μL/test	0,05 mg/ml	
APC	31A-100T	100 test	20 μL/test	0,05 mg/ml	

PRODUCT DESCRIPTION

Clone: TP1/15;

Isotype: IgG2b;

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 (NaN_a);

Recommended usage: Immunostep's CD3I, clone TPI/15, is a monoclonal antibody intended for the identification and enumeration of PECAM-I using flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using I test for I0⁶ 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 CD3I-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 cell-cell 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]

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.

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5. PROTOCOL

Direct Immunofluorescence Cell Surface Staining Protocol

- 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 °C for 30 minutes or at room temperature (20-25 °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).
- 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.
- 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 $^{\circ}$ 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
- Add purified reagent according to manufacturer's recommendation and mix gently with a vortex mixer.
- Incubate in the dark at room temperature at 4 °C for 30 minutes or at room temperature (20-25 °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.
- 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 μ L of PBS and adquire on the flow cytometer are recorded.
- 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

Cabanas C, Sanchez-Madrid F, Bellon T, Figdor CG, Te Velde AA, Fernandez JM, et

Characterization of a novel myeloid antigen regulated during differentiation of monocytic cells. Eur J Immunol1989 Aug;19(8):1373-8.

- Fonsatti E, Jekunen AP, Kairemo KJ, Coral S, Snellman M, Nicotra MR, et al. Endoglin is a suitable target for efficient imaging of solid tumors: in vivo evidence in a canine mammary carcinoma model. Clin Cancer Res2000 May;6(5):2037-43.
- Yoshino N, Ami Y, Terao K, Tashiro F, Honda M. Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of cynomolgus monkeys (Macaca fascicularis) by using anti-human cross-reactive antibodies. Exp Anim2000 Apr;49(2):97-IIO.

7. EXPLANATION OF SYMBOLS

	Form	
REF	Catalog reference	
\sum	Contains sufficient for > test	
\Diamond	Quantity per test	
	Regulatory Status	
RUO	Research Use Only	
[A]	Concentration	
•••	Manufacturer	

8. MANUFACTURED BY: IMMUNOSTEP S.L.



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