Anti-Human CD45RA (RP1/11)



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PURE	45RAPU	1 mg	1 mg/ml		
FITC	45RAF-100T		20 µL/test		
PE-Cyanine7	45RAPC7-100T	100 test	3 µL/test	0,03 mg/ml	RUO
APC	45RAA-100T	100 test	5 µL/test	0,05 mg/ml	

PRODUCT DESCRIPTION

Clone: RP1/11:

1.

Isotype: Mouse IgGI;

Tested application: flow cytometry;

Immunogen: The anti-CD45RA monoclonal antibody derives from immunizing mice with purified human CD45;

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 CD45RA, clone RP1/11 is a monoclonal antibody intended for the identification and enumeration of helper/inducer T-cell subset and CD45RA+ cells using flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using I test for 10⁶ cells;

Presentation: liquid;

Source: Supernatant proceeding from an in vitro cell culture of a cell hybridoma: Purification: Affinity chromatography; Other names: Ptprc, B220, CD45, CD45R, GP180, L-CA, LY5, T200; Gene ID: 5788: Molecular weight: 220 kDa

2. ANTIGEN DETAILS

Large description: The RP1/11 monoclonal antibody reacts with human CD45RA, a 220 kDa molecule expressed by subpopulations of CD4+ peripheral T lymphocytes, CD8+ peripheral T lymphocytes, and B cells. The CD45RA+ T cell populations are mainly naive/virgin allowing the use of RP1/11 mAb as a phenotypic marker to discriminate T cell subsets.^(I-6)

З. WARRANTY

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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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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 12x75 mm cvtometer 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 µL 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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- 6 Pulido, R., M. Cebrian, A. Acevedo, M. O. de Landazuri, and F. Sanchez-Madrid. 1988. Comparative biochemical and tissue distribution study of four distinct CD45 antigen specificities. J. Immunol. 140:3851

7. EXPLANATION OF SYMBOLS

\ ₽	Form
REF	Catalog reference
N N	Contains sufficient for > test
\bigcirc	Quantity per test
	Regulatory Status
RUO	Research Use Only
[A]	Concentration
	Manufacturer

MANUFACTURED BY: IMMUNOSTEP S.L.

8.

Address: Avda. Universidad de Coimbra, s/n Cancer Research Center (C.I.C) Campus de Unamuno 37007 Salamanca (Spain) info@immunostep.com

Telf./fax: (+34) 923 294 827 E-mail: www.immunostep.com