








Anti-Human CD45RO (UCHL1)

	REF	Σ	Quantity	RUO
FITC	45ROF-100T	100 test	20 µL/test	
PE	45ROPE-100T	100 test	20 µL/test	
PECy7	45ROPC7-100T	100 test	5 µL/test	

5. REFERENCES

- Norton AJ, Ramsay AD, Smith SH, Beverley PC, Isaacson PG. Monoclonal antibody (UCHL1) that recognises normal and neoplastic T cells in routinely fixed tissues. *J Clin Pathol* 1986 Apr;39(4):399-405.
- Smith SH, Brown MH, Rowe D, Callard RE, Beverley PC. Functional subsets of human helper-inducer cells defined by a new monoclonal antibody, UCHL1. *Immunology* 1986 May;58(1):63-70.
- Akbar AN, Terry L, Timms A, Beverley PC, Janossy G. Loss of CD45R and gain of UCHL1 reactivity is a feature of primed T cells. *J Immunol* 1988 Apr 1;140(7):2171-8.
- Ledbetter JA, Tonks NK, Fischer EH, Clark EA. CD45 regulates signal transduction and lymphocyte activation by specific association with receptor molecules on T or B cells. *Proc Natl Acad Sci U S A* 1988 Nov;85(22):8628-32.
- Streuli M, Morimoto C, Schriber M, Schlossman SF, Saito H. Characterization of CD45 and CD45R monoclonal antibodies using transfected mouse cell lines that express individual human leukocyte common antigens. *J Immunol* 1988 Dec 1;141(11):3910-4.

6. EXPLANATION OF SYMBOLS

	Form
	Catalog reference
	Contains sufficient for <n> test
	Quantity per test
	Regulatory Status
	Research Use Only
	Manufacturer

7. MANUFACTURED BY:

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1. PRODUCT DESCRIPTION

- ☒ **Clone:** UCHL1;
- ☒ **Isotype:** IgG2a;
- ☒ **Tested application:** flow cytometry;
- ☒ **Immunogen:** The anti-CD45RO monoclonal antibody derives from IL-2 dependent T cell line, CA1;
- ☒ **Species reactivity:** Human, Cross-Reactivity: Chimpanzee, Common Marmoset;
- ☒ **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 CD45RO, clone UCHL1 is a monoclonal antibody intended for the identification and enumeration of CD45RO present on approximately 40% of peripheral blood T lymphocytes using flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1test for 10⁶ cells;
- ☒ **Presentation:** liquid;
- ☒ **Source:** Supernatant proceeding from an in vitro cell culture of a cell hybridoma;
- ☒ **Purification:** Affinity chromatography;
- ☒ **Other names:** Ptpc, B220, CD45, CD45R, GP180, L-CA, LY5, T200, UCHL-1;
- ☒ **Gene ID:** 5788;
- ☒ **Molecular weight:** 180 kDa.

2. ANTIGEN DETAILS

Large description: The CD45RO antigen is present at low density early in the T-lymphocyte maturation cycle. Upon activation by phytohemagglutinin (PHA) or alloantigen, naive T lymphocytes first acquire CD45RO and then lose CD45RA. When these activated T lymphocytes are rechallenged, the cells that exhibit a secondary response are primarily CD45RO +, leading to the concept that CD45RO + cells are a primed population of memory T lymphocytes.

In peripheral blood, the CD45RO antigen is present on approximately 40% of resting peripheral blood T lymphocytes, including the CD4 + and CD8 + subpopulations, as well as on most thymocytes and activated T lymphocytes. It is also expressed on monocytes, macrophages, and granulocytes.⁽¹⁻⁹⁾

3. WARRANTY

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

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