

Anti-Human CD45RO (UCHL1)



FITC
PE



45ROF-100T
45ROPE-100T



100 test
100 test



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 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:** P:tprc, B220, CD45, CD45R, GPI80, 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.⁽¹⁻⁵⁾

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.

5. REFERENCES

1. 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.
2. 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.
3. Akbar AN, Terry L, Timms A, Beverley PC, Janosy 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.
4. 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.
5. 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



Fluorochrome



Product reference



Content for <n> analysis



Regulatory Status



Research Use Only



Manufacturer

7. MANUFACTURED BY:

IMMUNOSTEP S.L.

Address: Avda. Universidad de Coimbra, s/n
Cancer Research Center (C.I.C)
Campus de Unamuno
37007 Salamanca (Spain)
(+34) 923 294 827
Tel./fax:
E-mail: info@immunostep.com
www.immunostep.com