## **Product Data Sheet**

## PerCP/Cy5.5 anti-human CD45RO

Catalog # / Size:	2121110 / 100 tests 2121105 / 25 tests	
Clone:	UCHL1	
Isotype:	Mouse IgG2a, к	
Immunogen:	IL-2 dependent T cell line, CA1	
<b>Reactivity:</b>	Human	el ative Cell N
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.	10 <sup>0</sup> 10 <sup>1</sup> Log FL
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	Human periph lymphocytes s PerCP/Cy5.5
Workshop Number:	IV N31	
<b>Concentration:</b>	Lot-specific	

## 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup>

Human peripheral blood ymphocytes stained with UCHL1 PerCP/Cy5.5

## **Applications:**

Applications:	Flow Cytometry
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**Recommended** Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

 $\ast$  PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

Application Notes: The UCHL1 antibody is commonly used in combination with antibodies against CD45RA to discern memory and naïve T cells. Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections5 and formalin-fixed paraffin-embedded tissue sections4, Western blotting2, and immunoprecipitation3.

Application	<ol> <li>Knapp W, <i>et al.</i> Eds. 1989. Leucocyte Typing IV. Oxford University Press. New</li></ol>
References:	York. (FC) <li>Ishii T, <i>et al.</i> 2001. <i>P. Natl. Acad. Sci. USA</i> 98:12138. (WB)</li> <li>Ponsford M, <i>et al.</i> 2001. <i>Clin. Exp. Immunol.</i> 124:315. (IP)</li> <li>Yamada M, <i>et al.</i> 1996. <i>Stroke</i> 27:1155. (IHC)</li> <li>Sakkas LI, <i>et al.</i> 1998. <i>Clin. Diagn. Lab. Immunol.</i> 5:430. (IHC)</li> <li>Baba N, <i>et al.</i> 2010. <i>Int. Immunol.</i> 22:237. PubMed</li> <li>Thakral D, <i>et al.</i> 2008. <i>J. Immunol.</i> 180:7431. (FC) PubMed</li> <li>Weiss L, <i>et al.</i> 2010. <i>P. Natl. Acad. Sci. USA</i> 107:10632. PubMed</li> <li>Wu YY, <i>et al.</i> 2007. <i>Infect. Immun.</i> 75:4357. PubMed</li>

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com **Description:** CD45RO is a 180 kD single chain membrane glycoprotein. It is a splice variant of tyrosine phosphatase CD45, lacking the A, B, and C determinants. The CD45RO isoform is expressed on activated and memory T cells, some B cell subsets, activated monocytes/macrophages, and granulocytes. CD45RO enhances both T cell receptor and B cell receptor signaling mediated activation. CD45 and its isoforms non-covalently associate with lymphocyte phosphatase-associated phosphoprotein (LPAP) on T and B lymphocytes. CD45 has been reported to be associated with several other cell surface antigens including CD1, CD2, CD3, and CD4. CD45 has also been reported to bind galectin-1 and CD22. CD45 isoform expression can change in response to cytokines.

Antigen 1. Thomas M. 1989. *Annu. Rev. Immunol.* 7:339. References: 2. Trowbridge I, *et al.* 1994. *Annu. Rev. Immunol.* 12:85.