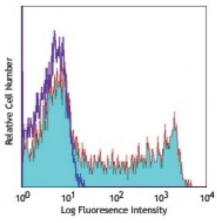
Product Data Sheet

APC anti-human CD45RO

Catalog # / Size:	2121050 / 100 tests	
Clone:	UCHL1	
Isotype:	Mouse lgG2a, к	
Immunogen:	IL-2 dependent T cell line, CA1	
Reactivity:	Human	
Preparation:	The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	ł
Workshop Number:	IV N31	1
Concentration:	Lot-specific	



Human peripheral blood lymphocytes stained with UCHL1 APC

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. Test size products are transitioning from 20 microL to 5 microL per test . Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
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 References:	 Knapp W, <i>et al.</i> Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York. (FC) Ishii T, <i>et al.</i> 2001. <i>P. Natl. Acad. Sci. USA</i> 98:12138. (WB) Ponsford M, <i>et al.</i> 2001. <i>Clin. Exp. Immunol.</i> 124:315. (IP) Yamada M, <i>et al.</i> 1996. <i>Stroke</i> 27:1155. (IHC) Sakkas LI, <i>et al.</i> 1998. <i>Clin. Diagn. Lab. Immunol.</i> 5:430. (IHC) Baba N, <i>et al.</i> 2010. <i>Int. Immunol.</i> 22:237. PubMed Thakral D, <i>et al.</i> 2008. <i>J. Immunol.</i> 180:7431. (FC) PubMed Weiss L, <i>et al.</i> 2010. <i>P. Natl. Acad. Sci. USA</i> 107:10632. PubMed Wu YY, <i>et al.</i> 2007. <i>Infect. Immun.</i> 75:4357. PubMed Mozaffarian N, <i>et al.</i> 2008. <i>Rheumatology</i> 47:1335. PubMed Roque S, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:8028. PubMed Yoshino N, <i>et al.</i> 2000. <i>Exp. Anim. (Tokyo)</i> 49:97. (FC) Smith SH, <i>et al.</i> 1986. <i>Immunology</i> 58:63. (Immunogen)

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,

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 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.