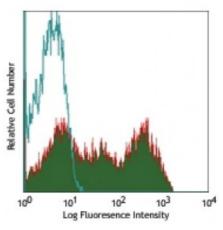
Product Data Sheet

Alexa Fluor[®] 700 anti-human CD45RO

Catalog # / Size:	2121090 / 100 μg 2121085 / 25 μg
Clone:	UCHL1
Isotype:	Mouse IgG2a, κ
Immunogen:	IL-2 dependent T cell line, CA1
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 700 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	IV N31
Concentration:	0.5



Human peripheral blood lymphocytes stained with UCHL1 Alexa Fluor® 700

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. The suggested use of this reagent is \leq 2.0 microg per million cells in 100 microL volume. It is highly recommended that the reagent be titrated for optimal performance for each application.
	* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.
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

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 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.