Pacific Blue™ anti-human CD45RO

Catalog # / Size: 2121080 / 100 μg

2121075 / 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 Pacific Blue™ under optimal conditions. The solution is free of unconjugated

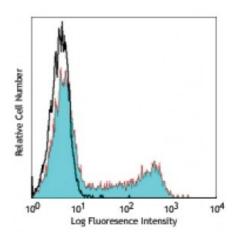
Pacific Blue™.

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

Pacific Blue™

Applications:

Applications: Flow Cytometry

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 ≤2.0 microg per million cells in 100 microL volume. 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:

1. Knapp W, et al. Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York. (FC)

2. Ishii T, et al. 2001. P. Natl. Acad. Sci. USA 98:12138. (WB) 3. Ponsford M, et al. 2001. Clin. Exp. Immunol. 124:315. (IP)

4. Yamada M, et al. 1996. Stroke 27:1155. (IHC)

5. Sakkas LI, et al. 1998. Clin. Diagn. Lab. Immunol. 5:430. (IHC)

6. Baba N, et al. 2010. Int. Immunol. 22:237. PubMed

7. Thakral D, et al. 2008. J. Immunol. 180:7431. (FC) PubMed

8. Weiss L, et al. 2010. P. Natl. Acad. Sci. USA 107:10632. PubMed

9. Wu YY, et al. 2007. Infect. Immun. 75:4357. PubMed

10. Mozaffarian N, et al. 2008. Rheumatology 47:1335. PubMed

11. Roque S, et al. 2007. J. Immunol. 178:8028. PubMed

12. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)

13. Smith SH, et al. 1986. Immunology 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, 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.