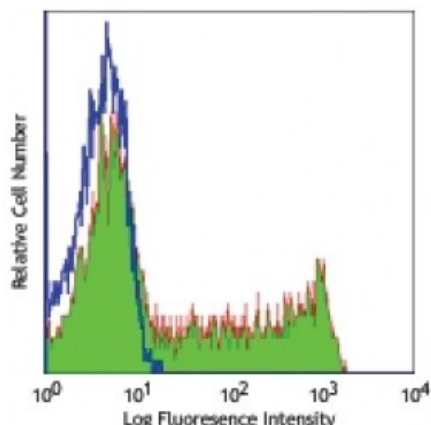


FITC anti-human CD45RO

Catalog # / Size:	2121210 / 100 µg 2121020 / 100 tests
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 FITC under optimal conditions. The solution is free of unconjugated FITC.
Formulation:	microg size: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. test size: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Workshop Number:	IV N31
Concentration:	microg size: 0.5 mg/ml test size: lot-specific



Human peripheral blood lymphocytes stained with UCHL1 FITC

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 using the microg size, the suggested use of this reagent is ≤1.0 microg per million cells in 100 microL volume. **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:**
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 - Ishii T, *et al.* 2001. *P. Natl. Acad. Sci. USA* 98:12138. (WB)
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 - Baba N, *et al.* 2010. *Int. Immunol.* 22:237. [PubMed](#)
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 - Roque S, *et al.* 2007. *J. Immunol.* 178:8028. [PubMed](#)
 - Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)

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.