

CD45RO Monoclonal Antibody (UCHL1), Super Bright™ 436, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	UCHL1
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2762512

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (1.0 µg)/test	1 Publication

Product Specific Information

Description: The UCHL1 monoclonal antibody reacts with human CD45RO, a 180 kDa isoform of CD45. CD45RO is expressed by most thymocytes, activated memory T cells, granulocytes and monocytes. CD22 is a ligand for CD45RO. Expression of CD45RO and CD45RA is used commonly to discriminate subsets of peripheral T cells.

Applications Reported: This UCHL1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This UCHL1 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (1.0 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

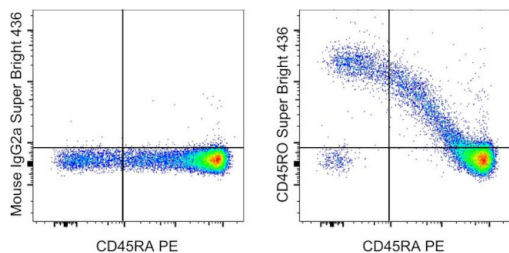
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD45RO Monoclonal Antibody (UCHL1), Super Bright™ 436, eBioscience™

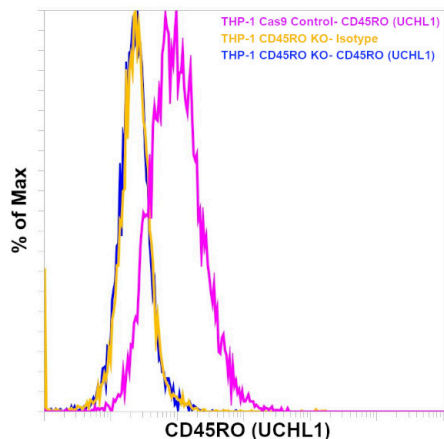


CD45RO Antibody (62-0457-42) in Flow

Staining of normal human peripheral blood cells with CD45RA Monoclonal Antibody, PE (Product # 12-0458-42) and Mouse IgG2a kappa Isotype Control, Super Bright 436 (Product # 62-4724-82) (left) or CD45RO Monoclonal Antibody, Super Bright 436 (right). Cells in the lymphocyte gate were used for analysis.

CD45RO Antibody (62-0457-42)

Antibody clone (UCHL1) specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. Loss of signal was observed for target protein in UCHL1 KO cells (blue histogram) compared to the control Cas9 cells (pink histogram) using CD45RO antibody (UCHL1). Yellow histogram represents staining with the isotype control. {KO}



1 Reference

Flow Cytometry (1)

Retrovirology

Longitudinal analysis of subtype C envelope tropism for memory CD4⁺ T cell subsets over the first 3 years of untreated HIV-1 infection.

"Published figure using CD45RO monoclonal antibody (Product # 62-0457-42) in Flow Cytometry"

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Year
2020

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