

CD45RO Monoclonal Antibody (UCHL1), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	UCHL1
Conjugate	PerCP-eFluor™ 710
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1834405

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	7 Publications

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-titrated and tested by flow cytometric analysis of normal peripheral blood cells. This can be used at 5 µL (0.125 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.

PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

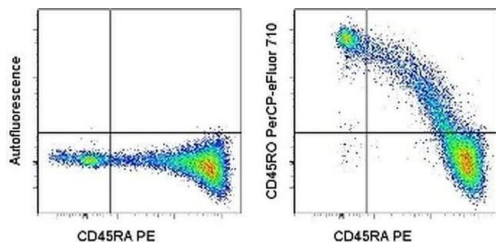
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step

Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD45RO Monoclonal Antibody (UCHL1), PerCP-eFluor™ 710, eBioscience™



CD45RO Antibody (46-0457-42) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD45RA PE (Product # 12-0458-42) and staining buffer (autofluorescence) (left) or Anti-Human CD45RO PerCP-eFluor® 710 (right). Cells in the lymphocyte gate were used for analysis.

7 References

Flow Cytometry (7)

Journal of virology

Differentiation into an Effector Memory Phenotype Potentiates HIV-1 Latency Reversal in CD4⁺ T Cells.

"46-0457-42 was used in Flow Cytometry to support the idea that the effector memory phenotype supports HIV-1 latency reversal in CD4⁺ T cells."

Authors: Kulpa DA, Talla A, Brehm JH, Ribeiro SP, Yuan S, Bebin-Blackwell AG, Miller M, Barnard R, Deeks SG, Hazuda D, Chomont N, Sékaly RP

Species
Human

Dilution
Not Cited

Year
2019

Cell research

Blocking the recruitment of naive CD4⁺ T cells reverses immunosuppression in breast cancer.

"Published figure using CD45RO monoclonal antibody (Product # 46-0457-42) in Flow Cytometry"

Authors: Su S, Liao J, Liu J, Huang D, He C, Chen F, Yang L, Wu W, Chen J, Lin L, Zeng Y, Ouyang N, Cui X, Yao H, Su F, Huang JD, Lieberman J, Liu Q, Song E

Species
Not Applicable

Dilution
Not Cited

Year
2017

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

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