

# CD45RA Monoclonal Antibody (HI100), APC-eFluor™ 780, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HI100
Conjugate	APC-eFluor™ 780
Excitation/Emission Max	756/785 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_10853641

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	19 Publications

## Product Specific Information

**Description:** The HI100 monoclonal antibody reacts with human CD45RA, a 220 kDa molecule expressed by subpopulations of CD4+ peripheral T lymphocytes, CD8+ peripheral T lymphocytes, and B cells. The CD45RA+ T cell populations are mainly naive/virgin allowing the use of HI100 mAb as a phenotypic marker to discriminate T cell subsets.

**Applications Reported:** This HI100 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This HI100 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

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

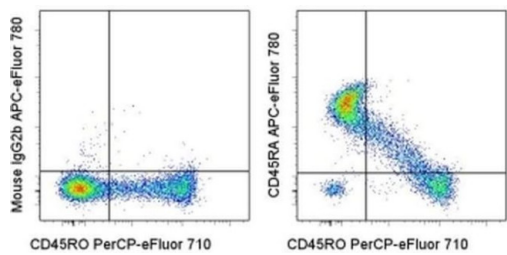
**Fixation:** Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone

specific performance should be determined empirically.

Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD45RA Monoclonal Antibody (HI100), APC-eFluor™ 780, eBioscience™



**CD45RA Antibody (47-0458-42) in Flow**  
Staining of normal human peripheral blood cells with Anti-Human CD45RO PerCP-eFluor® 710 (Product # 46-0457-42) and Mouse IgG2b K Isotype Control APC-eFluor® 780 (Product # 47-4732-80) (left) or Anti-Human CD45RA APC-eFluor® 780 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.cn](#)

19 References

Flow Cytometry (19)

Oncoimmunology	Year 2022
<b>TIGIT expressing CD4+T cells represent a tumor-supportive T cell subset in chronic lymphocytic leukemia.</b>	
"Published figure using CD45RA monoclonal antibody (Product # 47-0458-42) in Flow Cytometry"	
Authors: Catakovic K,Gassner FJ,Ratswohl C,Zaborsky N,Rebhandl S,Schubert M,Steiner M,Gutjahr JC,Pleyer L,Egle A,Hartmann TN,Greil R,Geisberger R	
Frontiers in immunology	Year 2021
<b>Differences in Maturation Status and Immune Phenotypes of Circulating Helios<sup>+</sup> and Helios<sup>-</sup> Tregs and Their Disrupted Correlations With Monocyte Subsets in Autoantibody-Positive T1D Individuals.</b>	
"Published figure using CD45RA monoclonal antibody (Product # 47-0458-42) in Flow Cytometry"	
Authors: Zhang Y,Zhang J,Shi Y,Shen M,Lv H,Chen S,Feng Y,Chen H,Xu X,Yang T,Xu K	

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

More applications with references on thermofisher.cn

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