CD45RA Monoclonal Antibody (HI100), PE, eBioscience™

Product Details	
Size	25 Tests
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HI100
Conjugate	PE
Excitation/Emission Max	565/576 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_10717397

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	26 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.

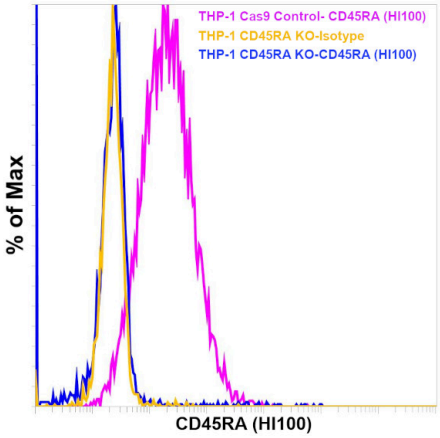
Applications Reported: The HI100 antibody has been reported for use in flow cytometric analysis.

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 (0.06 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 10^5 to 10^8 cells/test.

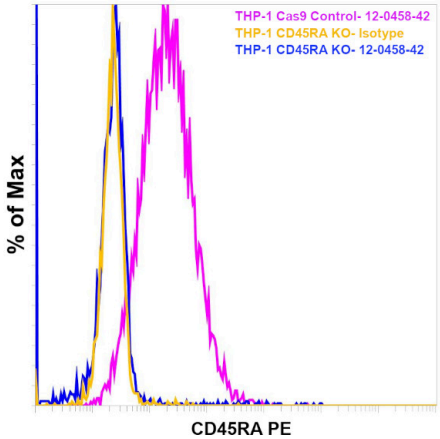
Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

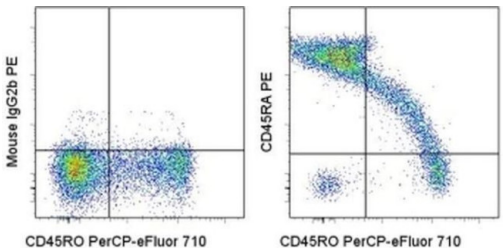
Product Images For CD45RA Monoclonal Antibody (HI100), PE, eBioscience™



CD45RA Antibody (12-0458-41)
Antibody clone (HI100) specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. Lossof signal was observed for target protein in CD45RA KOcells (blue histogram) compared to the control Cas9cells (pink histogram) using CD45RA antibody (HI100). Yellow histogram represents staining with the isotype control. {KO}



CD45RA Antibody (12-0458-41) in Flow
Knockout of CD45RA was achieved by CRISPR-Cas9 genome editing using LentiArray™ Lentiviral sgRNA (Product # A32042, Assay ID CRISPR664203_LV) and LentiArray Cas9 Lentivirus (Product # A32064). Flow cytometry analysis of CD45RA was performed by staining THP-1 CD45RA Knock out cells with 0.06 µg Mouse IgG2b kappa Isotype Control (eBMG2b), PE, eBioscience™ (Product # 12-4732-81, yellow histogram) or 0.06 µg CD45RA Monoclonal Antibody (HI100), PE, eBioscience™ (Product # 12-0458-42, blue histogram) in the presence of Fc Receptor Binding Inhibitor Polyclonal Antibody, eBioscience™ (Product # 14-9161-73). THP-1 Cas9 control cells were also stained similarly with0.06 µg CD45RA Monoclonal Antibody (HI100), PE, eBioscience™ (Product # 12-0458-42, pink histogram). Lossof signal was observed in the CD45RA KOcells stained with CD45RA antibody clone HI100 but not in the control Cas9cells. Viable cells were used for analysis, as determined by Fixable Viability DyeeFluor™780 (Product # 65-0865-18).



CD45RA Antibody (12-0458-41) 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 PE (Product # 12-4732-81) (left) or Anti-Human CD45RA PE (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.cn

26 References

Flow Cytometry (26)

Frontiers in immunology

Specific transcriptional programs differentiate ICOS from CD28 costimulatory signaling in human Naïve $CD4^+$ T cells.

"12-0458-42 was used in Flow cytometry/Cell sorting to suggest that ICOS and CD28 costimulatory signals play distinct roles during the activation of naive T cells by modulating distinct sets of immunological and immunometabolic genes."

Authors: Gigliotti CL,Boggio E,Favero F,Incarnato D,Santoro C,Oliviero S,Rojo JM,Zucchelli S,Persichetti F,Baldanzi G, Dianzani U,Corà D

Year
2022

Species
Human

Oncoimmunology

TIGIT expressing CD4+T cells represent a tumor-supportive T cell subset in chronic lymphocytic leukemia.

"Published figure using CD45RA monoclonal antibody (Product # 12-0458-42) 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

Year
2022

View more Flow references on thermofisher.cn

More applications with references on thermofisher.cn

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