CD45RA Monoclonal Antibody (HI100), Super Bright™ 702, 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), Super Bright™ 702, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HI100
Conjugate	Super Bright™ 702
Excitation/Emission Max	413/702 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_2662460

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	5 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-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may 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.

Super Bright 702 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 702 nm. We recommend using a 710/50 bandpass filter. 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.

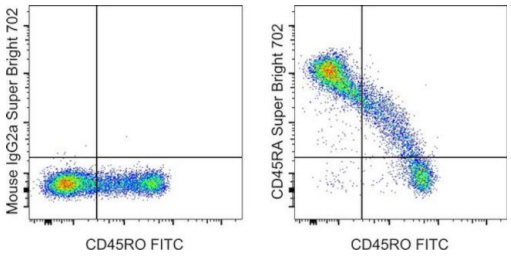
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of 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: 405 nm; Emission: 702 nm; Laser: Violet Laser

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

Product Images For CD45RA Monoclonal Antibody (HI100), Super Bright™ 702, eBioscience™



CD45RA Antibody (67-0458-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD45RO FITC (Product # 11-0457-42) and Mouse IgG2b K Isotype Control Super Bright 702 (Product # 67-4732-82) (left) or Anti-Human CD45RA Super Bright 702 (right). Cells in the lymphocyte gate were used for analysis.

5 References

Flow Cytometry (5)

Frontiers in immunology

Year
2021

Differences in Maturation Status and Immune Phenotypes of Circulating Helios^{+} and Helios^{-} Tregs and Their Disrupted Correlations With Monocyte Subsets in Autoantibody-Positive T1D Individuals.

"Published figure using CD45RA monoclonal antibody (Product # 67-0458-42) 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

The Journal of experimental medicine

Year
2021

Heterogeneous disease-propagating stem cells in juvenile myelomonocytic leukemia.

"Published figure using CD45RA monoclonal antibody (Product # 67-0458-42) in Flow Cytometry"

Authors: Louka E,Povinelli B,Rodriguez-Meira A,Buck G,Wen WX,Wang G,Sousos N,Ashley N,Hamblin A,Booth CAG, Roy A,Elliott N,Iskander D,de la Fuente J,Fordham N,O'Byrne S,Inglott S,Norfo R,Salio M,Thongjuea S,Rao A,Roberts I, Mead AJ

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