

CD45.1 Monoclonal Antibody (A20), Super Bright™ 645, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Super Bright™ 645, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	A20
Conjugate	Super Bright™ 645
Excitation/Emission Max	414/645 nm
Form	Liquid
Concentration	0.2 mg/mL
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_2662430

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	11 Publications

Product Specific Information

Description: The A20 monoclonal antibody reacts with the mouse CD45 molecule, the leukocyte common antigen (LCA) in CD45.1-expressing mouse strains. The strains that express CD45.1 include SJL/J, DA, STS/A and RIII. CD45.1 is expressed by all leukocytes in these strains.

Applications Reported: This A20 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This A20 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 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.

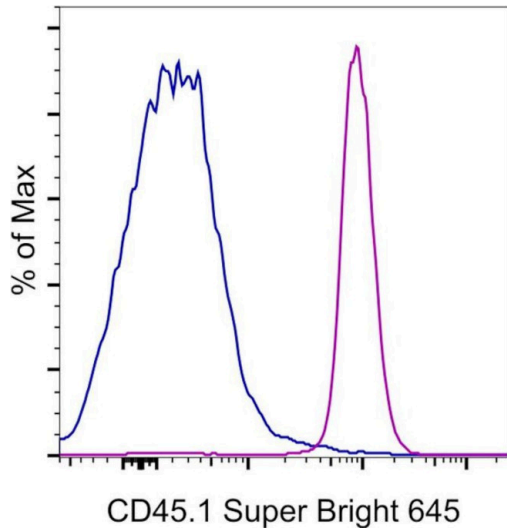
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L 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: 645 nm; Laser: Violet Laser

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

Product Images For CD45.1 Monoclonal Antibody (A20), Super Bright™ 645, eBioscience™



CD45.1 Antibody (64-0453-82) in Flow

Staining of C56BL/6 (blue histogram) and SJL (purple histogram) splenocytes with 0.5 μ g of Anti-Mouse CD45-1 Super Bright 645. Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

Flow Cytometry (11)

Science advances

Tet-mediated DNA demethylation regulates specification of hematopoietic stem and progenitor cells during mammalian embryogenesis.

"Published figure using CD45.1 monoclonal antibody (Product # 64-0453-82) in Flow Cytometry"

Authors: Ma L,Tang Q,Gao X,Lee J,Lei R,Suzuki M,Zheng D,Ito K,Frenette PS,Dawlaty MM

Year
2022

Frontiers in immunology

Ddb1 Is Essential for the Expansion of CD4⁺ Helper T Cells by Regulating Cell Cycle Progression and Cell Death.

"Published figure using CD45.1 monoclonal antibody (Product # 64-0453-82) in Flow Cytometry"

Authors: Yang L,Chen W,Li L,Xiao Y,Fan S,Zhang Q,Xia T,Li M,Hong Y,Zhao T,Li Q,Liu WH,Xiao N

Year
2021

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

More applications with references on thermofisher.com

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