

CD45.1 Monoclonal Antibody (A20), Super Bright™ 600, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	A20
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 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_2717041

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1.0 µg/test	10 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 may be used at less than or equal to 1.0 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 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 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.

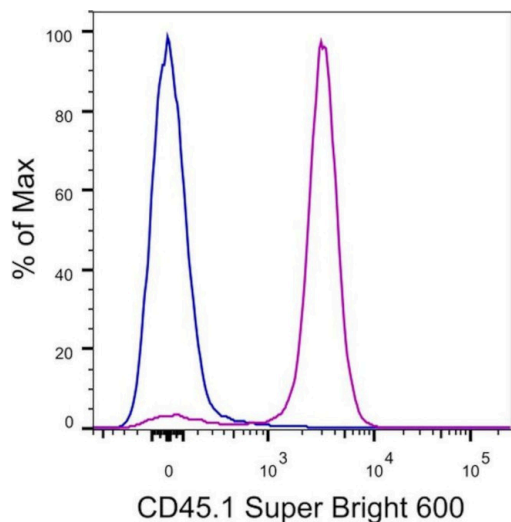
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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: 600 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™ 600, eBioscience™



CD45.1 Antibody (63-0453-82) in Flow

SJL mouse splenocytes were stained with with 0.5 μ g of Mouse IgG2a kappa Isotype Control, Super Bright 600 (Product # 63-4724) (blue histogram) or 0.5 μ g of CD45.1 Monoclonal Antibody, Super Bright 600 (Product # 36-0453) (purple histogram). Cells in the lymphocyte gate were used for analysis.

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

10 References

Flow Cytometry (10)

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 # 63-0453-82) 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 # 63-0453-82) 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

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More applications with references on thermofisher.com

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