

# CD45.2 Monoclonal Antibody (104), 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	104
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_2662428

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	14 Publications

## Product Specific Information

**Description:** The 104 monoclonal antibody reacts with the mouse CD45 molecule, the leukocyte common antigen (LCA) in CD45.2-expressing mouse strains. The strains that express CD45.2 include the most commonly used mouse strains C57BL/6, BALB/c, C58, DBA/1, DBA/2, C3H/He, CBA, 129, A and AKR. CD45.2 is expressed by all leukocytes in these strains.

**Applications Reported:** This 104 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This 104 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 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.

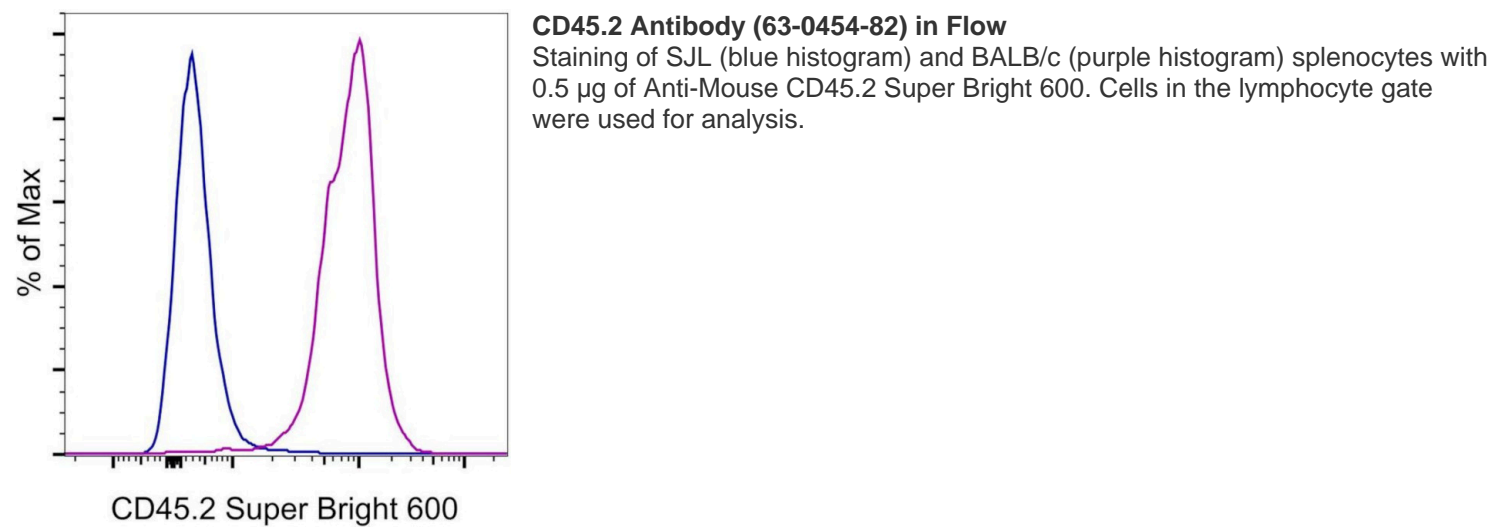
**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

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 2-8°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorochrome 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 CD45.2 Monoclonal Antibody (104), Super Bright™ 600, eBioscience™**



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## Immunohistochemistry (1)

<p><b>Molecular medicine reports</b></p> <p><b>Aggravation of hepatic ischemiareperfusion injury with increased inflammatory cell infiltration is associated with the TGF/Smad3 signaling pathway.</b></p> <p>"Published figure using CD45.2 monoclonal antibody (Product # 63-0454-82) in Immunohistochemistry"</p> <p>Authors: Li H,Shen X,Tong Y, Ji T,Feng Y,Tang Y,Mai R,Ye J,Que T,Luo X</p>	<p><b>Year</b> 2021</p>
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## Flow Cytometry (14)

<p><b>Frontiers in immunology</b></p> <p><b>Ddb1 Is Essential for the Expansion of CD4<sup>+</sup> Helper T Cells by Regulating Cell Cycle Progression and Cell Death.</b></p> <p>"Published figure using CD45.2 monoclonal antibody (Product # 63-0454-82) in Flow Cytometry"</p> <p>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</p>	<p><b>Year</b> 2021</p>
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<p><b>Cell reports</b></p> <p><b>Differentiation of fetal hematopoietic stem cells requires ARID4B to restrict autocrine KITLG/KIT-Src signaling.</b></p> <p>"Published figure using CD45.2 monoclonal antibody (Product # 63-0454-82) in Flow Cytometry"</p> <p>Authors: Young IC,Wu B,Andricovich J,Chuang ST,Li R,Tzatsos A,Wu RC,Wu MY</p>	<p><b>Year</b> 2021</p>
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