

CD45.2 Monoclonal Antibody (104), Super Bright™ 780, 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™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	104
Conjugate	Super Bright™ 780
Excitation/Emission Max	413/780 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_2802469

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	1.0 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 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 780 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 780 nm. We recommend using a 780/60 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

In some experiments, we have observed that compensation values for Super Bright 780-conjugated antibodies are higher in the violet 450/50 channel when using UltraComp eBeads microspheres (Product # 01-2222-42) as compared to single-color stained cells. In such circumstances, we would recommend setting compensation with cells. We have also observed this in some experiments using AbC Total Antibody Compensation beads (Product # A10497).

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.

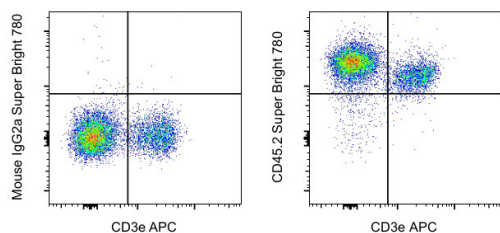
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) 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: 780 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™ 780, eBioscience™



CD45.2 Antibody (78-0454-82) in Flow

BALB/c mouse splenocytes were stained with CD3e Monoclonal Antibody, APC (Product # 17-0031-82) and 0.5 μ g of Mouse IgG2a kappa Isotype Control, Super Bright 780 (Product # 78-4724-82) (left) or 0.5 μ g of CD45.2 Monoclonal Antibody, Super Bright 780 (right). Total cells were used for analysis.

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

15 References

Immunohistochemistry (1)

Molecular medicine reports

Aggravation of hepatic ischemiareperfusion injury with increased inflammatory cell infiltration is associated with the TGF/Smad3 signaling pathway.

"Published figure using CD45.2 monoclonal antibody (Product # 78-0454-82) in Immunohistochemistry"

Authors: Li H, Shen X, Tong Y, Ji T, Feng Y, Tang Y, Mai R, Ye J, Que T, Luo X

Year
2021

Flow Cytometry (14)

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 CD45.2 monoclonal antibody (Product # 78-0454-82) 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

Cell reports

Differentiation of fetal hematopoietic stem cells requires ARID4B to restrict autocrine KITLG/KIT-*Src* signaling.

"Published figure using CD45.2 monoclonal antibody (Product # 78-0454-82) in Flow Cytometry"

Authors: Young IC, Wu B, Andricovich J, Chuang ST, Li R, Tzatsos A, Wu RC, Wu MY

Year
2021

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More applications with references on thermofisher.com

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