CD45.2 Monoclonal Antibody (104), Super Bright™ 436, 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™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	104
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 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_2744776

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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

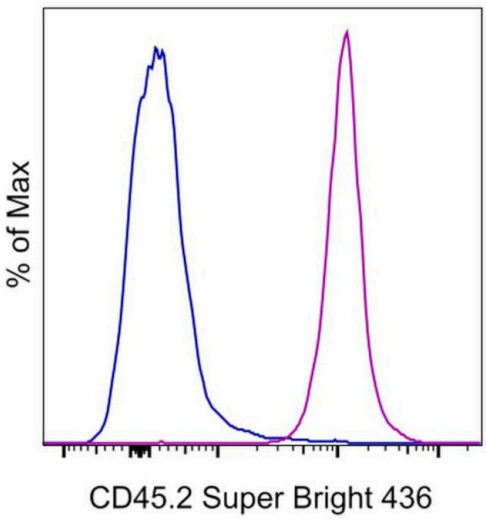
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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.

Excitation: 405 nm; Emission: 436 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™ 436, eBioscience™



CD45.2 Antibody (62-0454-82) in Flow
BALB/c mouse splenocytes were stained with 1.0 µg of Mouse IgG2a kappa Isotype Control, Super Bright 436 (Product # 62-4724-82) (blue histogram) or 1.0 µg of CD45.2 Monoclonal Antibody, Super Bright 436 (purple histogram). Total viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

View more figures on thermofisher.com

15 References

Immunohistochemistry (1)

Molecular medicine reports

Year
2021

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 # 62-0454-82) in Immunohistochemistry"

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

Flow Cytometry (14)

Frontiers in immunology

Year
2021

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 # 62-0454-82) 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

Cell reports

Year
2021

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

"Published figure using CD45.2 monoclonal antibody (Product # 62-0454-82) in Flow Cytometry"

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

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