

# CD90.2 (Thy-1.2) Monoclonal Antibody (53-2.1), Super Bright™ 600, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	53-2.1
Conjugate	Super Bright™ 600
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_2744840

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	3 Publications

## Product Specific Information

**Description:** The 53-2.1 monoclonal antibody reacts with mouse CD90.2 also known as Thy-1.2, a GPI-linked membrane molecule. CD90.2 is expressed by mouse thymocytes and mature T cells as well as neurons in CD90.2-expressing mouse strains. These strains include BALB/c, CBA, C3H, C57BL/6, C58/, SJL and others. Cells from CD90.1-expressing strains including PL and AKR do not stain with 53-2.1. CD90 is involved in regulation of adhesion and signal transduction by T cells.

**Applications Reported:** This 53-2.1 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This 53-2.1 antibody has been tested by flow cytometric analysis of mouse splenocytes. This may be used at less than or equal to 0.25 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<sup>5</sup> to 10<sup>8</sup> 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.

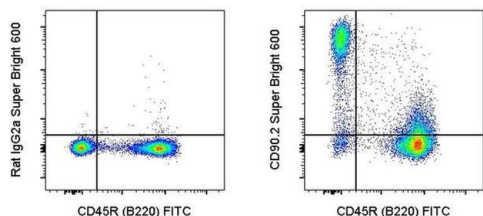
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100  $\mu$ L of cell sample + 100  $\mu$ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 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 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 CD90.2 (Thy-1.2) Monoclonal Antibody (53-2.1), Super Bright™ 600, eBioscience™



### CD90.2 (Thy-1.2) Antibody (63-0902-82) in Flow

C57Bl/6 mouse splenocytes were stained with CD45R (B220) Monoclonal Antibody, FITC (Product # 11-0460-82) and 0.125  $\mu$ g of Rat IgG2a kappa Isotype Control, Super Bright 600 (Product # 63-4321-82) (left) or 0.125  $\mu$ g of CD90.2 Monoclonal Antibody, Super Bright 600 (right). Total viable cells were used for analysis.

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

## 3 References

### Flow Cytometry (3)

International journal of molecular sciences

#### Therapeutic Potential of Mesenchymal Stem Cells in a Pre-Clinical Model of Diabetic Kidney Disease and Obesity.

"Published figure using CD90.2 (Thy-1.2) monoclonal antibody (Product # 63-0902-82) in Flow Cytometry"

Authors: Sávio-Silva C, Soinski-Sousa PE, Simplicio-Filho A, Bastos RMC, Beyerstedt S, Rangel ÉB

Species  
Not Applicable

Dilution  
Not Cited

Year  
2021

JCI insight

#### Cardiac fibroblast proliferation rates and collagen expression mature early and are unaltered with advancing age.

"Published figure using CD90.2 (Thy-1.2) monoclonal antibody (Product # 63-0902-82) in Flow Cytometry"

Authors: Wu R, Ma F, Tosevska A, Farrell C, Pellegrini M, Deb A

Species  
Not Applicable

Dilution  
Not Cited

Year  
2020

View more Flow references on [thermofisher.com](https://thermofisher.com)

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