

# CD90.2 (Thy-1.2) Monoclonal Antibody (53-2.1), Super Bright™ 436, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	53-2.1
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_2688052

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.03 µg/test	6 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 0.03 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 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.™

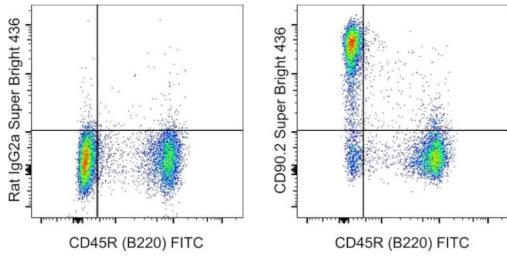
When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.™

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser<sup>AM</sup>

<sup>AM</sup>

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™ 436, eBioscience™



### CD90.2 (Thy-1.2) Antibody (62-0902-80) in Flow

Swiss Webster mouse splenocytes were stained with CD45R (B220) Monoclonal Antibody, FITC (Product # 11-0452-82) and 0.015 µg of Rat IgG2a kappa Isotype Control, Super Bright 436 (Product # 62-4321-82) (left) or 0.015 µg of CD90.2 (Thy-1.2) Monoclonal Antibody, Super Bright 436 (right). Cells in the lymphocyte gate were used for analysis.

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

## 7 References

### Immunohistochemistry (1)

Nature communications

#### Lasp1 regulates adherens junction dynamics and fibroblast transformation in destructive arthritis.

"Published figure using CD90.2 (Thy-1.2) monoclonal antibody (Product # 62-0902-82) in Immunohistochemistry"

Authors: Beckmann D, Römer-Hillmann A, Krause A, Hansen U, Wehmeyer C, Intemann J, de Gorter DJJ, Dankbar B, Hillen J, Heitzmann M, Begemann I, Galic M, Weinhage T, Foell D, Ai R, Kremerskothen J, Kiener HP, Müller S, Kamradt T, Schröder C, Leitão E, Horsthemke B, Rosenstiel P, Nordström K, Gasparoni G, Gasparoni N, Walter J, Li N, Yang X, Chung HR, Pavenstädt H, Lindemann N, Schnittler HJ, Wang W, Firestein GS, Pap T, Korb-Pap A

Year

2021

### Flow Cytometry (6)

Nature communications

#### A single-cell transcriptional atlas reveals resident progenitor cell niche functions in TMJ disc development and injury.

"Published figure using CD90.2 (Thy-1.2) monoclonal antibody (Product # 62-0902-82) in Flow Cytometry"

Authors: Bi R, Yin Q, Li H, Yang X, Wang Y, Li Q, Fang H, Li P, Lyu P, Fan Y, Ying B, Zhu S

Year

2023

Therapeutic advances in chronic disease

#### Extracellular HMGB-1 activates inflammatory signaling in tendon cells and tissues.

"Published figure using CD90.2 (Thy-1.2) monoclonal antibody (Product # 62-0902-82) in Flow Cytometry"

Authors: Zhang C, Gu X, Zhao G, Wang W, Shao J, Zhu J, Yuan T, Sun J, Nie D, Zhou Y

Year

2022

[View more Flow references on thermofisher.com](#)

## More applications with references on thermofisher.com

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