

# CD90.2 (Thy-1.2) Monoclonal Antibody (53-2.1), eFluor™ 450, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), eFluor™ 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	53-2.1
Conjugate	eFluor™ 450
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1272200

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.015 µg/test	23 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

## 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.

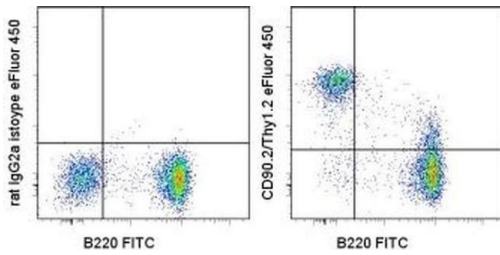
Applications Tested: This 53-2.1 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.015 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined 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.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD90.2 (Thy-1.2) Monoclonal Antibody (53-2.1), eFluor™ 450, eBioscience™



### CD90.2 (Thy-1.2) Antibody (48-0902-82) in Flow

Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) APC (Product # 17-0452-82) and 0.015 µg of Rat IgG2a kappa Isotype Control eFluor® 450 (Product # 48-4321-82) (left) or 0.0075 µg of Anti-Mouse CD90.2 (Thy-1.2) eFluor® 450 (right). Total viable cells were used for analysis.

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

## 25 References

### Immunocytochemistry (1)

#### Nature

#### Single-cell transcriptomics reconstructs fate conversion from fibroblast to cardiomyocyte.

"Published figure using CD90.2 (Thy-1.2) monoclonal antibody (Product # 48-0902-82) in Immunofluorescence"

Authors: Liu Z,Wang L,Welch JD,Ma H,Zhou Y,Vaseghi HR,Yu S,Wall JB,Alimohamadi S,Zheng M,Yin C,Shen W,Prins JF,Liu J,Qian L

#### Species

Not Applicable

#### Dilution

Not Cited

#### Year

2017

### Flow Cytometry (23)

#### 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 # 48-0902-82) 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 # 48-0902-82) 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](#)

### Miscellaneous PubMed (1)

#### Journal of immunology (Baltimore, Md. : 1950)

#### Intrarectal immunization and IgA antibody-secreting cell homing to the small intestine.

"48-0902 was used in Magnetic cell separation to investigate the organ distribution and the homing molecule expression of IgA Ab-secreting cells induced by intrarectal immunisation with a particulate Ag."

Authors: Agnello D,Denimal D,Lavaux A,Blondeau-Germe L,Lu B,Gerard NP,Gerard C,Pothier P

#### Species

Mouse

#### Dilution

Not Cited

#### Year

2013

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