

CD90.2 (Thy-1.2) Monoclonal Antibody (53-2.1), PE-Cyanine7, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Fish, Mouse
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	53-2.1
Conjugate	PE-Cyanine7
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_469642

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.06 µg/test	26 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 0.06 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.

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

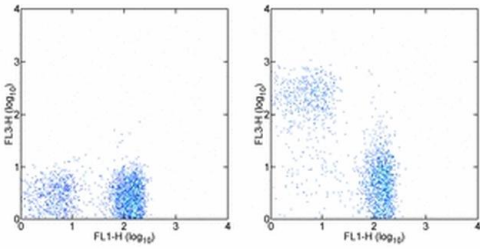
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix /Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency

/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD90.2 (Thy-1.2) Monoclonal Antibody (53-2.1), PE-Cyanine7, eBioscience™



CD90.2 (Thy-1.2) Antibody (25-0902-82) in Flow

Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.03 µg of Rat IgG2a K Isotype Control PE-Cyanine7 (Product # 25-4321-82) (left) or 0.03 µg of Anti-Mouse CD90-2 (Thy-1-2) PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

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

27 References

Flow Cytometry (26)

Neuron

Sox11 Expression Promotes Regeneration of Some Retinal Ganglion Cell Types but Kills Others.

"25-0902 was used in Flow cytometry to demonstrate that Sox11 can reprogram adult retinal ganglion cells to a growth-competent state."

Authors: Norsworthy MW, Bei F, Kawaguchi R, Wang Q, Tran NM, Li Y, Brommer B, Zhang Y, Wang C, Sanes JR, Coppola G, He Z

Species
Mouse

Dilution
Not Cited

Year
2017

Annals of surgery

Lymphatic Contribution to the Cellular Niche in Heterotopic Ossification.

"Published figure using CD90.2 (Thy-1.2) monoclonal antibody (Product # 25-0902-82) in Flow Cytometry"

Authors: Loder S, Agarwal S, Sorkin M, Breuler C, Li J, Peterson J, Gardenier J, Hsieh HH, Wang SC, Mehrara BJ, Levi B

Species
Mouse
Not Applicable

Dilution
Not Cited
Not Cited

Year
2016

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

Miscellaneous PubMed (1)

Journal of immunology (Baltimore, Md. : 1950)

Tc17, a unique subset of CD8 T cells that can protect against lethal influenza challenge.

"25-0902 was used in Flow cytometry/Cell sorting to study the role of Tc17 cells in influenza infection, showing that they protect against lethality."

Authors: Hamada H, Garcia-Hernandez Mde L, Reome JB, Misra SK, Strutt TM, McKinstry KK, Cooper AM, Swain SL, Dutton RW

Species
Mouse

Dilution
Not Cited

Year
2009

More applications with references on thermofisher.com

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