

CD90.2 (Thy-1.2) Monoclonal Antibody (53-2.1), PE-eFluor™ 610, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE-eFluor™ 610, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	53-2.1
Conjugate	PE-eFluor™ 610
Excitation/Emission Max	565/606 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2815304

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 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 0.25 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PE-eFluor 610 can be excited with laser lines from 488-561 nm and emits at 607 nm. We recommend using a 610/20 band pass filter (equivalent to PE-Texas Red). Please make sure that your instrument is capable of detecting this fluorochrome.

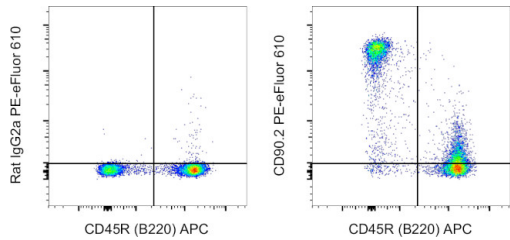
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) 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: 607 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser

Product Images For CD90.2 (Thy-1.2) Monoclonal Antibody (53-2.1), PE-eFluor™ 610, eBioscience™



CD90.2 (Thy-1.2) Antibody (61-0902-82) in Flow
C57BL/6 mouse splenocytes were stained with CD45R (B220) Monoclonal Antibody, APC (Product # 17-0452-82) and 0.125 µg of Rat IgG2a kappa Isotype Control, PE-eFluor 610 (Product # 61-4321-82) (left) or 0.125 µg of CD90.2 (Thy-1.2) Monoclonal Antibody, PE-eFluor 610 (right). Cells in the lymphocyte gate were used for analysis.

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6 References

Flow Cytometry (6)

<p>Nature communications</p> <p>A single-cell transcriptional atlas reveals resident progenitor cell niche functions in TMJ disc development and injury.</p> <p>"Published figure using CD90.2 (Thy-1.2) monoclonal antibody (Product # 61-0902-82) in Flow Cytometry"</p> <p>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</p>	<p>Year 2023</p>
<p>Therapeutic advances in chronic disease</p> <p>Extracellular HMGB-1 activates inflammatory signaling in tendon cells and tissues.</p> <p>"Published figure using CD90.2 (Thy-1.2) monoclonal antibody (Product # 61-0902-82) in Flow Cytometry"</p> <p>Authors: Zhang C,Gu X,Zhao G,Wang W,Shao J,Zhu J,Yuan T,Sun J,Nie D,Zhou Y</p>	<p>Year 2022</p>

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