

CD90.2 (Thy-1.2) Monoclonal Antibody (53-2.1), eFluor™ 506, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), eFluor™ 506, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	53-2.1
Conjugate	eFluor™ 506
Excitation/Emission Max	419/508 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_2762804

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.5 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.

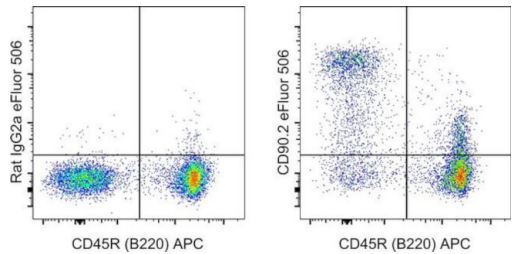
Applications Reported: This 53-2.1 antibody has been reported for use in flow cytometric analysis.

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 0.5 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.

eFluor™ 506 can be excited with the violet laser line (405 nm) and emits at 506 nm. We recommend using a 510/20 band pass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 506 nm; Laser: Violet Laser

Product Images For CD90.2 (Thy-1.2) Monoclonal Antibody (53-2.1), eFluor™ 506, eBioscience™



CD90.2 (Thy-1.2) Antibody (69-0902-82) in Flow
BALB/c mouse splenocytes were stained with CD45R (B220) Monoclonal Antibody, APC (Product # 17-0452-82) and 0.25 µg of Rat IgG2a kappa Isotype Control, eFluor 506 (Product # 69-4321-82) (left) or 0.25 µg of CD90.2 Monoclonal Antibody, eFluor 506 (right). Total viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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7 References

Immunohistochemistry (1)

<p>Nature communications</p> <p>Lasp1 regulates adherens junction dynamics and fibroblast transformation in destructive arthritis.</p> <p>"Published figure using CD90.2 (Thy-1.2) monoclonal antibody (Product # 69-0902-82) in Immunohistochemistry"</p> <p>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</p>	<p>Year</p> <p>2021</p>
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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 # 69-0902-82) 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</p> <p>2023</p>
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<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 # 69-0902-82) 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</p> <p>2022</p>
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