

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	53-2.1
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_467379

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	0.06 µg/test	55 Publications
Immunoprecipitation (IP)	Assay-Dependent	-

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: The 53-2.1 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining of frozen tissue sections.

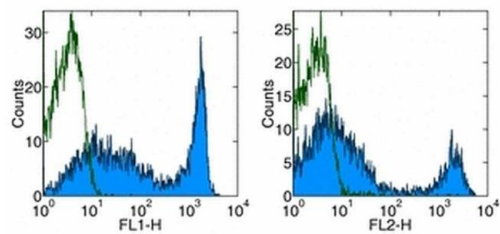
Applications Tested: The 53-2.1 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.06 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined 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.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD90.2 (Thy-1.2) Antibody (14-0902-82) in Flow

Surface staining of mouse splenocytes with Anti-Mouse CD90-2 (Thy-1-2) FITC (left) and PE (right). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

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

61 References

Immunohistochemistry (2)

Immunity

Retinoic Acid Differentially Regulates the Migration of Innate Lymphoid Cell Subsets to the Gut.

"14-090282 was used in flow cytometry and immunohistochemistry to discuss tissue tropisms of innate lymphoid cells"

Authors: Kim MH, Taparowsky EJ, Kim CH

Species
Mouse

Dilution
Not Cited

Year
2015

Cell death & disease

Renin-angiotensin system regulates neurodegeneration in a mouse model of normal tension glaucoma.

"14-0902 was used in Immunohistochemistry to identify the coupling of ER and CMA as a critical regulatory axis fundamental for physiological and pathological stress response."

Authors: Semba K, Namekata K, Guo X, Harada C, Harada T, Mitamura Y

Species
Mouse

Dilution
Not Cited

Year
2014

Immunocytochemistry (4)

Nature

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

"Published figure using CD90.2 (Thy-1.2) monoclonal antibody (Product # 14-0902-82) 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

Nature communications

Netrin-1 regulates somatic cell reprogramming and pluripotency maintenance.

"14-0902 was used in Flow cytometry/Cell sorting to demonstrate that Netrin-1 imbalance induces apoptosis mediated by the receptor DCC in a p53-independent manner."

Authors: Ozmadenci D, Féraud O, Markossian S, Kress E, Ducarouge B, Gibert B, Ge J, Durand I, Gadot N, Plateroti M, Bennaceur-Griscellii A, Scoazec JY, Gil J, Deng H, Bernet A, Mehlen P, Lavial F

Species
Mouse

Dilution
Not Cited

Year
2015

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Flow (55)

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