

CD90.2 (Thy-1.2) Monoclonal Antibody (53-2.1), APC-eFluor 780, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Fish, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC-eFluor 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	53-2.1
Conjugate	APC-eFluor® 780
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_1272187

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	22 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 can be used at less than or equal to 0.125 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 10⁴ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochoime.

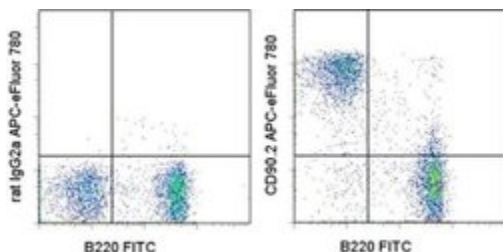
Light sensitivity: This tandem is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD90.2 (Thy-1.2) Monoclonal Antibody (53-2.1), APC-eFluor 780, eBioscience™



CD90.2 (Thy-1.2) Antibody (47-0902-82) in Flow

Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.06 µg of Rat IgG2a kappa Isotype Control APC-eFluor® 780 (Product # 47-4321-82) (left) or 0.06 µg of Anti-Mouse CD90-2 (Thy-1-2) APC-eFluor® 780 (right). Total viable cells were used for analysis.

[View more figures on thermofisher.com](#)

22 References

Flow Cytometry (22)

Nature communications

Disruption of p21-activated kinase 1 gene diminishes atherosclerosis in apolipoprotein E-deficient mice.

"Published figure using CD90.2 (Thy-1.2) monoclonal antibody (Product # 47-0902-82) in Flow Cytometry"

Authors: Singh NK, Kotla S, Dyukova E, Traylor JG, Orr AW, Chernoff J, Marion TN, Rao GN

Species
Not Applicable

Dilution
Not Cited

Year
2015

Mucosal immunology

Mucosal production of uric acid by airway epithelial cells contributes to particulate matter-induced allergic sensitization.

"47-0902 was used in Flow cytometry/Cell sorting to investigate the mechanisms governing induction of innate immune responses and allergic sensitisation by particulate matter."

Authors: Gold MJ, Hiebert PR, Park HY, Stefanowicz D, Le A, Starkey MR, Deane A, Brown AC, Liu G, Horvat JC, Ibrahim ZA, Sukkar MB, Hansbro PM, Carlsten C, Van Eeden S, Sin DD, McNagny KM, Knight DA, Hirota JA

Species
Mouse

Dilution
Not Cited

Year
2016

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

More applications with references on thermofisher.com

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