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

| Product Details | |
|---|---|
| Size | 100 µg |
| Species Reactivity | Mouse |
| Published Species | 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 | 35 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 10^5 to 10^8 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 fluorochome.

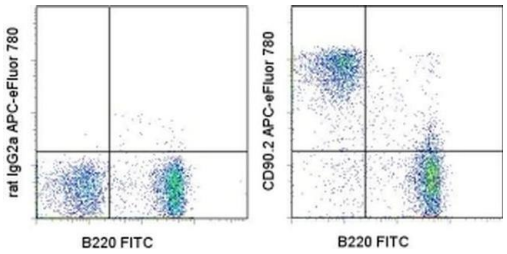
Light sensitivity: This tandem is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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.

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## 35 References

### Flow Cytometry (35)

**eLife**

**Distinct skeletal stem cell types orchestrate long bone skeletogenesis.**

"47-0902-82 was used in Flow Cytometry to address previously unappreciated shortcomings of SSC research."

Authors: Ambrosi TH,Sinha R,Steininger HM,Hoover MY,Murphy MP,Koepke LS,Wang Y,Lu WJ,Morri M,Neff NF, Weissman IL,Longaker MT,Chan CK

**Species**
Mouse

**Dilution**
1:100

**Year**
2021

**Cell reports**

**TNF--induced alterations in stromal progenitors enhance leukemic stem cell growth via CXCR2 signaling.**

"47-0902-82 was used in Flow Cytometry to find that TNF--mediated alterations in CML BM stromal niches enhance support of LSC maintenance and growth via CXCL1-CXCR2 signaling and that CXCR2 inhibition effectively depletes CML LSCs."

Authors: Agarwal P,Li H,Choi K,Hueneman K,He J,Welner RS,Starczynowski DT,Bhatia R

**Species**
Mouse

**Dilution**
Not Cited

**Year**
2021

View more Flow references on thermofisher.com

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