

# CD90 (Thy-1) Monoclonal Antibody (eBio5E10 (5E10)), APC, eBioscience™

| Product Details             |  |
|-----------------------------|--|
| Size                        | 100 Tests  |
| Species Reactivity          | Human  |
| Published Species           | Human, Mouse   |
| Host/Isotype                | Mouse / IgG1, kappa  |
| Recommended Isotype Control | Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC, eBioscience™ |
| Class                       | Monoclonal   |
| Type                        | Antibody   |
| Clone                       | eBio5E10 (5E10)  |
| Conjugate                   | APC  |
| Form                        | Liquid   |
| Concentration               | 5 µL/Test  |
| Purification                | Affinity chromatography  |
| Storage buffer              | PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA                         |
| Contains                    | 0.09% sodium azide   |
| Storage conditions          | 4° C, store in dark, DO NOT FREEZE!                              |
| RRID                        | AB_11042579  |

| Applications          | Tested Dilution     | Publications    |
|-----------------------|---------------------|-----------------|
| Flow Cytometry (Flow) | 5 µL (0.25 µg)/test | 33 Publications |

## Product Specific Information

**Description:** The eBio5E10 monoclonal antibody reacts with human CD90, also known as Thy-1 (thymus cell antigen-1). CD90 is a 25-35 kD receptor expressed on thymocytes, CD34+ prothymocytes, hematopoietic stem cells, neurons, a small subset of human fetal liver cells, cord blood cells, and bone marrow cells. CD90 is expressed on a subset of immature, CD34+ cells and a distinct subset of mature CD34- cells that are CD3+CD4+. The CD90+CD34+ population is enriched for cells capable of long-term culture. CD90 is involved in regulation of adhesion and signal transduction by T cells.

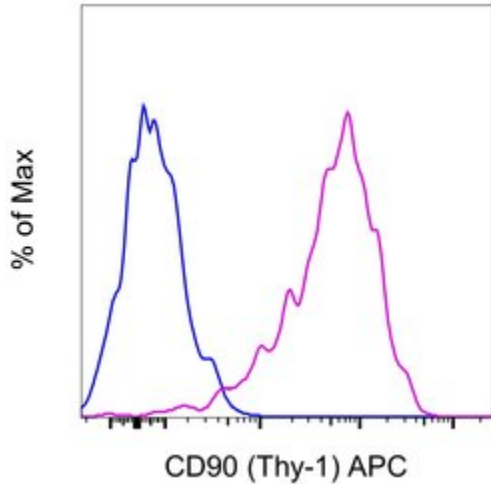
**Applications Reported:** This eBio5E10 (5E10) antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This eBio5E10 (5E10) antibody has been pre-titrated and tested by flow cytometric analysis of human erythroleukemia (HEL) cells. This can be used at 5 µL (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 10<sup>5</sup> to 10<sup>8</sup> cells /test.

**Excitation:** 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

## Product Images For CD90 (Thy-1) Monoclonal Antibody (eBio5E10 (5E10)), APC, eBioscience™



### CD90 (Thy-1) Antibody (17-0909-42) in Flow

HEL cells were stained with Mouse IgG1 kappa Isotype Control, APC (Product # 17-4714-82) (blue histogram) or CD90 (Thy-1) Monoclonal Antibody, APC (purple histogram). Total cells were used for analysis.

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

### 33 References

#### Flow Cytometry (33)

International journal of molecular sciences

#### The Effect of Angiotensin II, Retinoic Acid, EGCG, and Vitamin C on the Cardiomyogenic Differentiation Induction of Human Amniotic Fluid-Derived Mesenchymal Stem Cells.

"Published figure using CD90 (Thy-1) monoclonal antibody (Product # 17-0909-42) in Flow Cytometry"

Authors: Gasinien M, Valatkait E, Navakauskait A, Navakauskien R

**Species**

Not Applicable

**Dilution**

Not Cited

**Year**

2020

Stem cells international

#### Differentiation Potential of Early- and Late-Passage Adipose-Derived Mesenchymal Stem Cells Cultured under Hypoxia and Normoxia.

"Published figure using CD90 (Thy-1) monoclonal antibody (Product # 17-0909-42) in Flow Cytometry"

Authors: Zhao AG, Shah K, Freitag J, Cromer B, Sumer H

**Species**

Not Applicable

**Dilution**

Not Cited

**Year**

2020

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

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