

CD90 (Thy-1) Monoclonal Antibody (eBio5E10 (5E10)), PerCP-Cyanine5.5, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Artificial Control, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PerCP-Cyanine5.5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio5E10 (5E10)
Conjugate	PerCP-Cyanine5.5
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_10718245

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	20 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.

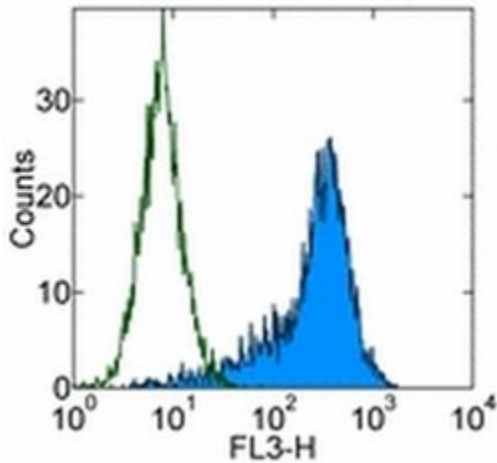
Applications Reported: This eBio5E10 (5E10) antibody has been reported for use in flow cytometric analysis.

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 (0.125 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 10⁵ to 10⁸ cells /test.

Excitation: 488 nm; **Emission:** 695 nm; **Laser:** Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD90 (Thy-1) Monoclonal Antibody (eBio5E10 (5E10)), PerCP-Cyanine5.5, eBioscience™



CD90 (Thy-1) Antibody (45-0909-42) in Flow

Staining of the HEL cell line with Mouse IgG1 K Isotype Control PerCP-Cyanine5-5 (Product # 45-4714-82) (open histogram) or Anti-Human CD90 (Thy-1) PerCP-Cyanine5-5 (filled histogram). Total viable cells were used for analysis.

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

20 References

Flow Cytometry (20)

Experimental and therapeutic medicine

MALP-2, an agonist of TLR6, promotes the immune status without affecting the differentiation capacity of umbilical cord mesenchymal stem cells.

"45-0909 was used in Flow cytometry/Cell sorting to assess the role of TLR6 in the immune status of umbilical cord mesenchymal stem cells, by stimulation with the TLR6 agonist MALP-2."

Authors: Wu X,Xu L,Shen Y,Yu N,Zhang Y,Guo T

Species
Human

Dilution
1:200

Year
2017

International journal of clinical and experimental pathology

PDGFR- (+) perivascular cells from infantile hemangioma display the features of mesenchymal stem cells and show stronger adipogenic potential in vitro and in vivo.

"Published figure using CD90 (Thy-1) monoclonal antibody (Product # 45-0909-42) in Flow Cytometry"

Authors: Yuan SM,Guo Y,Zhou XJ,Shen WM,Chen HN

Species
Not Applicable

Dilution
Not Cited

Year
2015

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More applications with references on thermofisher.com

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