

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

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	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
Excitation/Emission Max	489/679 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 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	42 Publications

Product Specific Information

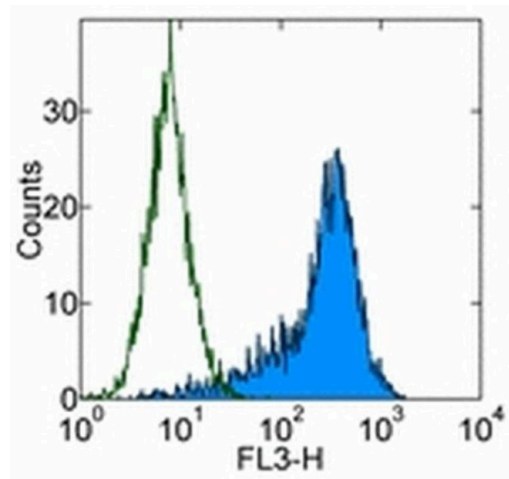
Description: The eBio5E10 monoclonal antibody reacts with human CD90, also known as Thy-1 (thymus cell antigen-1). CD90 is a 25-35 kD receptor expressed on thymocytes, CD34+ prothymocytes, hematopoietic stem cells, neurons, a small subset of human fetal liver cells, cord blood cells, and bone marrow 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.



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.

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Flow Cytometry (42)

STAR protocols	Year 2023
Fluorescence-activated cell sorting and phenotypic characterization of human fibro-adipogenic progenitors.	
"Published figure using CD90 (Thy-1) monoclonal antibody (Product # 45-0909-42) in Flow Cytometry"	
Authors: Billeskov TB,Jensen JB,Jessen N,Farup J	
NPJ Regenerative medicine	Year 2023
BMP-2 functional polypeptides relieve osteolysis via bi-regulating bone formation and resorption coupled with macrophage polarization.	Species Human
"45-0909-42 was used in Flow cytometry/Cell sorting to suggest that BMP2pp may be a potential option for treating prosthetic loosening induced by wear debris from prostheses."	Dilution 1:1,000
Authors: Wang J,Xue Y,Wang Y,Liu C,Hu S,Zhao H,Gu Q,Yang H,Huang L,Zhou X,Shi Q	

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More applications with references on thermofisher.cn

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