

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

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio5E10 (5E10)
Conjugate	PE-Cyanine5
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_10669699

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	22 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 10⁵ to 10⁸ cells /test.

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

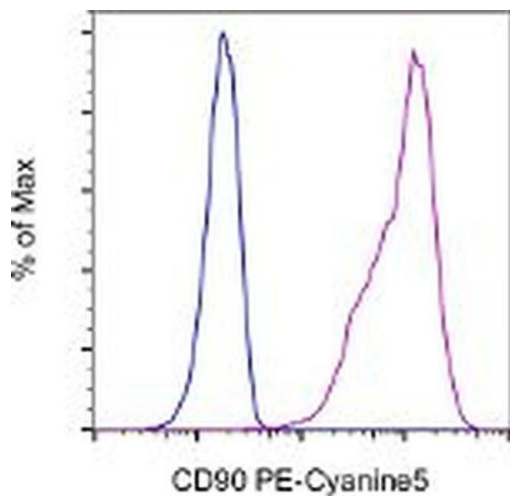
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix

/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: 488-561 nm; Emission: 667 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD90 (Thy-1) Antibody (15-0909-42) in Flow

Staining of HEL cells with Mouse IgG1 K Isotype Control PE-Cyanine5 (Product # 15-4714-81) (blue histogram) or Anti-Human CD90 (Thy-1) PE-Cyanine5 (purple histogram). Total viable cells were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

Immunocytochemistry (1)

Journal of biomolecular screening

High-content imaging-based screening of microenvironment-induced changes to stem cells.

"15-0909 was used in Immunocytochemistry to discover that high-content imaging of structurally sensitive proteins can be used to identify stem cell phenotypes at the single-cell level."

Authors: Vega SL,Liu E,Patel PJ,Kulesa AB,Carlson AL,Ma Y,Becker ML,Moghe PV

Species
Human

Dilution
Not Cited

Year
2012

Flow Cytometry (22)

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 # 15-0909-42) 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 # 15-0909-42) in Flow Cytometry"

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

Species
Not Applicable

Dilution
Not Cited

Year
2020

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More applications with references on thermofisher.com

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