

CD90 (Thy-1) Monoclonal Antibody (eBio5E10 (5E10)), APC-eFluor™ 780, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio5E10 (5E10)
Conjugate	APC-eFluor™ 780
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_2848361

Applications	Tested Dilution	Publications
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-diluted and tested by flow cytometric analysis of human erythroleukemia (HEL) cells. This may 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.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633-647 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

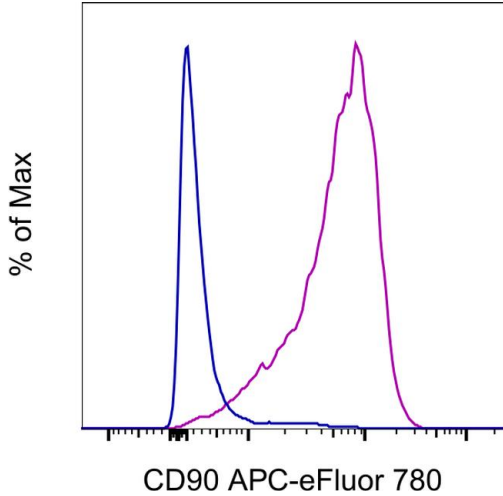
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer)

or 1-step Fix/Lyse Solution (Product # 00-5333-57) 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

Product Images For CD90 (Thy-1) Monoclonal Antibody (eBio5E10 (5E10)), APC-eFluor™ 780, eBioscience™



CD90 (Thy-1) Antibody (47-0909-42) in Flow

HEL cells were stained with Mouse IgG1 kappa Isotype Control, APC-eFluor 780 (Product # 47-4714-82) (blue histogram) or CD90 (Thy-1) Monoclonal Antibody, APC-eFluor 780 (purple histogram). Viable cells were used for analysis, as determined by Fixable Viability Dye eFluor 450 (Product # 65-0863-18).

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

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 # 47-0909-42) 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 # 47-0909-42) 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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