

CD90 (Thy-1) Monoclonal Antibody (eBio5E10 (5E10)), Super Bright™ 436, 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), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio5E10 (5E10)
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2637318

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	29 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 kDa 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 the HEL cell line. 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.

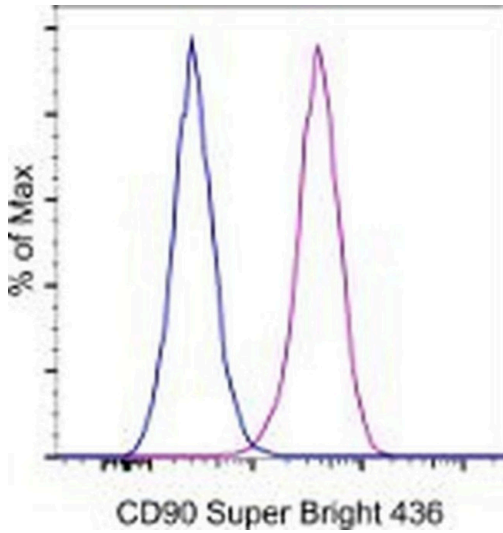
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD90 (Thy-1) Monoclonal Antibody (eBio5E10 (5E10)), Super Bright™ 436, eBioscience™



CD90 (Thy-1) Antibody (62-0909-42) in Flow

Staining of HEL cell line with Mouse IgG1 K Isotype Control Super Bright 436 (Product # 62-4714-82) (blue histogram) or Anti-Human CD90 (Thy-1) Super Bright 436 (purple histogram). Total viable cells were used for analysis.

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

31 References

Flow Cytometry (29)

Stem cell research & therapy

Exosomes derived from stem cells of human deciduous exfoliated teeth inhibit angiogenesis in vivo and in vitro via the transfer of miR-100-5p and miR-1246.

"Published figure using CD90 (Thy-1) monoclonal antibody (Product # 62-0909-42) in Flow Cytometry"

Authors: Liu P,Zhang Q,Mi J,Wang S,Xu Q,Zhuang D,Chen W,Liu C,Zhang L,Guo J,Wu X

Year
2022

Bioengineered

VAP-PLGA microspheres (VAP-PLGA) promote adipose-derived stem cells (ADSCs)-induced wound healing in chronic skin ulcers in mice via PI3K/Akt/HIF-1 pathway.

"Published figure using CD90 (Thy-1) monoclonal antibody (Product # 62-0909-42) in Flow Cytometry"

Authors: Jiang W,Zhang J,Zhang X,Fan C,Huang J

Year
2021

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

Immunohistochemistry (1)

Development (Cambridge, England)

BNC1 regulates cell heterogeneity in human pluripotent stem cell-derived epicardium.

"Published figure using CD90 (Thy-1) monoclonal antibody (Product # 62-0909-42) in Immunocytochemistry"

Authors: Gambardella L,McManus SA,Moignard V,Sebukhan D,Delaune A,Andrews S,Bernard WG,Morrison MA,Riley PR,Göttgens B,Gambardella Le Novère N,Sinha S

Year
2019

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Year
2019

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