

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

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Pig, Human, Mouse, Horse
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio5E10 (5E10)
Conjugate	PE
Excitation/Emission Max	565/576 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_10670624

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	59 Publications

## Product Specific Information

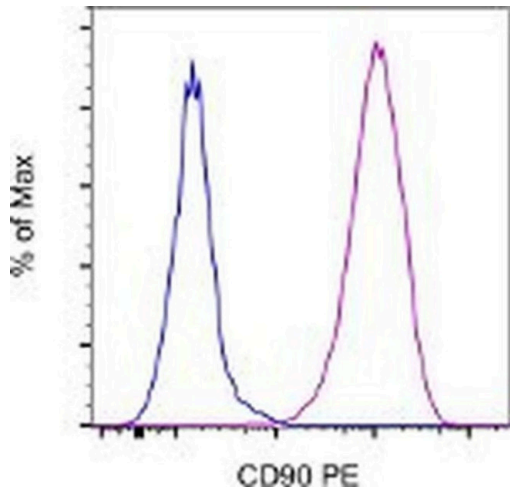
**Description:** The eBio5E10 monoclonal antibody reacts with human CD90, also known as Thy-1 (thymus cell antigen-1). CD90 is a 25-35 kD receptor expressed on thymocytes, CD34+ prothymocytes, hematopoietic stem cells, neurons, a small subset of human fetal liver cells, cord blood cells, and bone marrow 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

**Excitation:** 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.



**CD90 (Thy-1) Antibody (12-0909-42) in Flow**  
Staining of human erythroleukemia (HEL) cells with Mouse IgG1 K Isotype Control PE (Product # 12-4714-81) (blue histogram) or Anti-Human CD90 (Thy-1) PE (purple histogram). Total viable cells were used for analysis.

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[59 References](#)

Flow Cytometry (59)

<p>Frontiers in veterinary science</p> <p><b>Equine Dental Pulp Connective Tissue Particles Reduced Lameness in Horses in a Controlled Clinical Trial.</b></p> <p>"12-0909 was used in Flow cytometry/Cell sorting to assess if injection of allogeneic dental pulp tissue particles improves lameness in horses with naturally occurring osteoarthritis or soft tissue injury."</p> <p>Authors: Bertone AL,Reisbig NA,Kilborne AH,Kaido M,Salmanzadeh N,Lovasz R,Sizemore JL,Scheuermann L,Kopp R.J, Zekas LJ,Brokken MT</p>	<p>Year 2023</p> <p>Species Horse</p>
<p>STAR protocols</p> <p><b>Fluorescence-activated cell sorting and phenotypic characterization of human fibro-adipogenic progenitors.</b></p> <p>"Published figure using CD90 (Thy-1) monoclonal antibody (Product # 12-0909-42) in Flow Cytometry"</p> <p>Authors: Billeskov TB,Jensen JB,Jessen N,Farup J</p>	<p>Year 2023</p>

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