

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
Excitation/Emission Max	568/666 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_10669699

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	39 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.

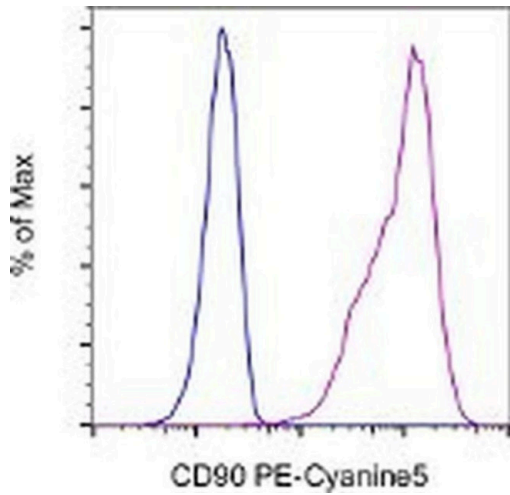
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-822-49) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) for up to 3 days in the dark at 4°C with minimal impact on brightness and

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)

<p>Journal of biomolecular screening</p> <p>High-content imaging-based screening of microenvironment-induced changes to stem cells.</p> <p>"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."</p> <p>Authors: Vega SL,Liu E,Patel PJ,Kulesa AB,Carlson AL,Ma Y,Becker ML,Moghe PV</p>	<p>Year 2012</p> <p>Species Human</p>
---	---

Flow Cytometry (39)

<p>STAR protocols</p> <p>Fluorescence-activated cell sorting and phenotypic characterization of human fibro-adipogenic progenitors.</p> <p>"Published figure using CD90 (Thy-1) monoclonal antibody (Product # 15-0909-42) in Flow Cytometry"</p> <p>Authors: Billeskov TB,Jensen JB,Jessen N,Farup J</p>	<p>Year 2023</p>
<p>International journal of molecular sciences</p> <p>Fused Cells between Human-Adipose-Derived Mesenchymal Stem Cells and Monocytes Keep Stemness Properties and Acquire High Mobility.</p> <p>"Published figure using CD90 (Thy-1) monoclonal antibody (Product # 15-0909-42) in Flow Cytometry"</p> <p>Authors: Montalbán-Hernández K,Casado-Sánchez C,Avendaño-Ortiz J,Casalvilla-Dueñas JC,Bonel-Pérez GC,Prado-Montero J,Valentín-Quiroga J,Lozano-Rodríguez R,Terrón-Arcos V,de la Bastida FR,Córdoba L,Laso-García F, Diekhorst L,Del Fresno C,López-Collazo E</p>	<p>Year 2022</p>

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

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.