

# CD90 (Thy-1) Monoclonal Antibody (eBio5E10 (5E10)), Alexa Fluor™ 700, 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), Alexa Fluor™ 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio5E10 (5E10)
Conjugate	Alexa Fluor™ 700
Excitation/Emission Max	696/719 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_2811893

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	20 Publications

## Product Specific Information

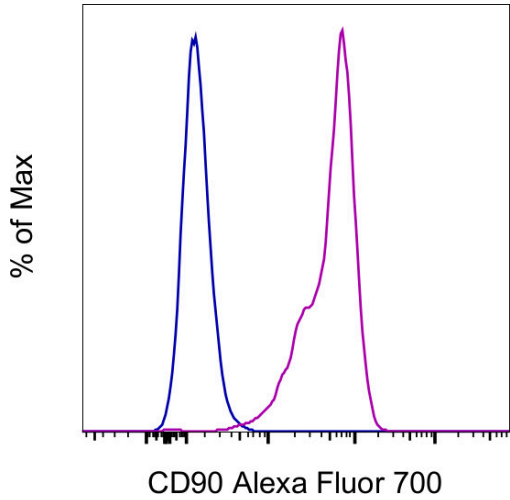
Description: The eBio5E10 monoclonal antibody reacts with human CD90, also known as Thy-1 (thymus cell antigen-1). CD90 is a 25-35 kDa receptor expressed on thymocytes, CD34+ prothymocytes, hematopoietic stem cells, neurons, a small subset of human fetal liver cells, cord blood cells, and bone marrow 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 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBio5e10 antibody has been pre-diluted and tested by flow cytometric analysis of human erythroleukemia (HEL) cells. This may be used at 5 µL (0.5 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 10^5 to 10^8 cells/test.

Alexa Fluor 700 emits at 723 nm and can be excited with the red laser (633-647 nm). Most instruments will require a 685 LP mirror and 710/20 band pass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser



**CD90 (Thy-1) Antibody (56-0909-42) in Flow**  
HEL cells were stained with Mouse IgG1 kappa Isotype Control, Alexa Fluor 700 (Product # 56-4714-80) (blue histogram) or CD90 (Thy-1) Monoclonal Antibody, Alexa Fluor 700 (purple histogram). Viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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[20 References](#)

Flow Cytometry (20)

STAR protocols	Year
<b>Fluorescence-activated cell sorting and phenotypic characterization of human fibro-adipogenic progenitors.</b>	2023
"Published figure using CD90 (Thy-1) monoclonal antibody (Product # 56-0909-42) in Flow Cytometry"	
Authors: Billeskov TB,Jensen JB,Jessen N,Farup J	

International journal of molecular sciences	Year
<b>Fused Cells between Human-Adipose-Derived Mesenchymal Stem Cells and Monocytes Keep Stemness Properties and Acquire High Mobility.</b>	2022
"Published figure using CD90 (Thy-1) monoclonal antibody (Product # 56-0909-42) in Flow Cytometry"	
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	

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