

# CD90 (Thy-1) Monoclonal Antibody (eBio5E10 (5E10)), Brilliant Violet™ 786, 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), Brilliant Violet™ 786, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio5E10 (5E10)
Conjugate	Brilliant Violet™ 786
Excitation/Emission Max	406/788 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_2925734

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	-

## 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 HEL cells. This may be used at 5 µL (0.125 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.

Brilliant Violet™ 786 (BV786) is a tandem dye that emits at 786 nm and is intended for use on cytometers equipped with a violet (405 nm) laser. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright, Brilliant Violet™, Brilliant Ultra Violet™, or other polymer dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401-42) or Brilliant Stain Buffer™ (Product # 00-4409-75) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer or Brilliant Stain Buffer for more information.

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

light.

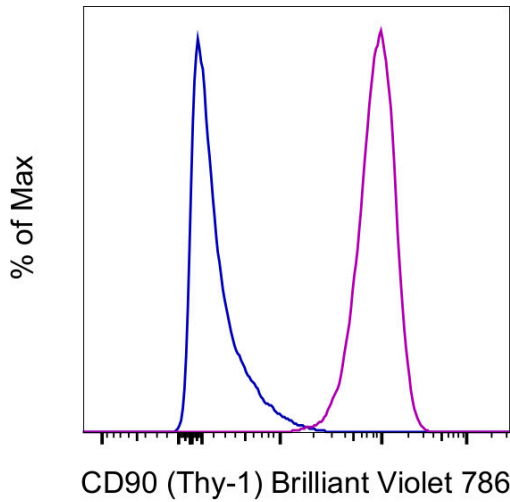
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone-specific performance should be determined empirically.

Our internal testing suggests that Brilliant Violet™ 786 (BV786) is not compatible with methanol-based fixation.

Excitation: 407 nm; Emission: 786 nm; Laser: Violet Laser.

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**Product Images For CD90 (Thy-1) Monoclonal Antibody (eBio5E10 (5E10)), Brilliant Violet™ 786, eBioscience™**



**CD90 (Thy-1) Antibody (417-0909-42) in Flow**  
HEL cells were stained with Mouse IgG1 kappa Isotype Control, Brilliant Violet 786 (Product # 417-4714-81) (blue histogram) or CD90 (Thy-1) Monoclonal Antibody, Brilliant Violet 786 (purple histogram). Viable cells were used for analysis, as determined by LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit (Product # L34974).

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