

# CD90.1 (Thy-1.1) Monoclonal Antibody (HIS51), Super Bright™ 645, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse, Rat
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Super Bright™ 645, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HIS51
Conjugate	Super Bright™ 645
Form	Liquid
Concentration	0.2 mg/mL
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_2717097

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	-

## Product Specific Information

**Description:** The HIS51 monoclonal antibody reacts with rat CD90 and cross-reacts with mouse CD90.1, a GPI-linked membrane molecule. In the rat, CD90 is expressed by hematopoietic stem cells, immature B cells, thymocytes, recent thymic emigrants, neurons, inflamed endothelia and other cell types. In the CD90.1-expressing mouse strains, PL and AKR, CD90 is expressed by early hematopoietic cells in the bone marrow, thymocytes and mature T cells.

**Applications Reported:** This HIS51 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This HIS51 antibody has been tested by flow cytometric analysis of mouse splenocytes. This may be used at less than or equal to 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 bandpass filter. 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.

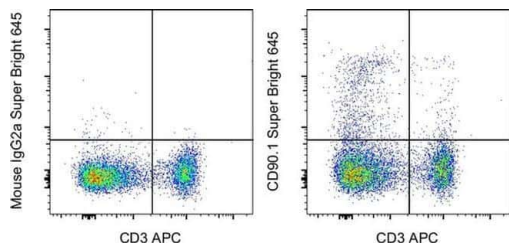
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) 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: 405 nm; Emission: 645 nm; Laser: Violet Laser

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

## Product Images For CD90.1 (Thy-1.1) Monoclonal Antibody (HIS51), Super Bright™ 645, eBioscience™



### CD90.1 (Thy-1.1) Antibody (64-0900-82) in Flow

Staining of rat splenocytes with Anti-Rat CD3 APC (Product # 17-0030) and 0.25 µg of Mouse IgG2a kappa Isotype Control Super Bright 645 (Product # 64-4724) (left) or 0.25 µg of CD90-1 (Thy-1-1) Monoclonal Antibody, Super Bright 645 (right). Total viable cells were used for analysis.

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