

CD90.1 (Thy-1.1) Monoclonal Antibody (HIS51), Super Bright™ 600, 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™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HIS51
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 nm
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_2717051

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	15 Publications

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 rat splenocytes. This may be used at less than or equal to 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 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.

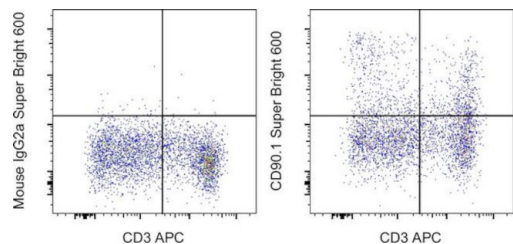
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L 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:** 600 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™ 600, eBioscience™



CD90.1 (Thy-1.1) Antibody (63-0900-82) in Flow

Staining of rat splenocytes with CD3 Monoclonal Antibody, APC (Product # 17-0030-82) and 0.125 μ g of Mouse IgG2a kappa Isotype Control Super Bright 600 (Product # 63-4724-82) (left) or 0.125 μ g of CD90-1 (Thy-1-1) Monoclonal Antibody, Super Bright 600 (right). Total viable cells were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

17 References

Immunohistochemistry (1)

Stem cell research & therapy

Bone marrow-derived mesenchymal stem cells combined with gonadotropin therapy restore postnatal oogenesis of chemo-ablated ovaries in rats via enhancing very small embryonic-like stem cells.

"Published figure using CD90.1 (Thy-1.1) monoclonal antibody (Product # 63-0900-82) in Immunohistochemistry"

Authors: Ebrahim N, Al Saihati HA, Shaman A, Dessouky AA, Farid AS, Hussien NI, Mostafa O, Seleem Y, Sabry D, Saad AS, Emam HT, Hassouna A, Badr OAM, Saffaf BA, Forsyth NR, Salim RF

Year
2021

Immunocytochemistry (1)

Frontiers in endocrinology

Pituispheres Contain Genetic Variants Characteristic to Pituitary Adenoma Tumor Tissue.

"Published figure using CD90.1 (Thy-1.1) monoclonal antibody (Product # 63-0900-82) in Immunocytochemistry"

Authors: Peculis R, Mandrika I, Petrovska R, Dortane R, Megnis K, Nazarovs J, Balcere I, Stukens J, Konrade I, Pirags V, Klovins J, Rovite V

Year
2021

Flow Cytometry (15)

Heliyon

Single-cell transcriptomics reveals variable trajectories of CSPCs in the progression of osteoarthritis.

"Published figure using CD90.1 (Thy-1.1) monoclonal antibody (Product # 63-0900-82) in Flow Cytometry"

Authors: Qi L, Wang J, Chen X, Ding Y, Ling B, Wang W, Xu J, Xue Z

Year
2022

Neural regeneration research

Sustained release of exosomes loaded into polydopamine-modified chitin conduits promotes peripheral nerve regeneration in rats.

"Published figure using CD90.1 (Thy-1.1) monoclonal antibody (Product # 63-0900-82) in Flow Cytometry"

Authors: Li C, Liu SY, Zhang M, Pi W, Wang B, Li QC, Lu CF, Zhang PX

Year
2022

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More applications with references on thermofisher.com

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