

# CD90.1 (Thy-1.1) Monoclonal Antibody (HIS51), FITC, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Mouse, Rat
Published Species	Dog, Rat, Cat, Mouse, Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HIS51
Conjugate	FITC
Excitation/Emission Max	498/517 nm
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465151

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	4 Publications
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	0.06 µg/test	73 Publications
Miscellaneous PubMed (Misc)	-	3 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.

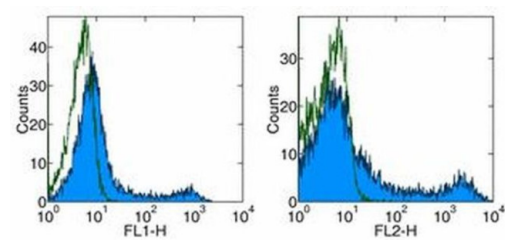
**Applications Reported:** The HIS51 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** The HIS51 antibody has been tested by flow cytometric analysis of rat thymocyte and splenocyte suspensions. This can be used at less than or equal to 0.06 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.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

**Product Images For CD90.1 (Thy-1.1) Monoclonal Antibody (HIS51), FITC, eBioscience™**



**CD90.1 (Thy-1.1) Antibody (11-0900-81) in Flow**  
Staining of rat splenocytes with 0.03 µg of Anti-Mouse/Rat CD90.1 (Thy-1.1) FITC (left) and PE (right). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

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## Immunohistochemistry (4)

<p><b>Stem cell research &amp; therapy</b></p> <p><b>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.</b></p> <p>"Published figure using CD90.1 (Thy-1.1) monoclonal antibody (Product # 11-0900-81) in Immunohistochemistry"</p> <p>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</p>	<p><b>Year</b> 2021</p>
<p><b>Frontiers in endocrinology</b></p> <p><b>Aldosterone Blocks Rat Stem Leydig Cell Development <i>In Vitro</i>.</b></p> <p>"Published figure using CD90.1 (Thy-1.1) monoclonal antibody (Product # 11-0900-81) in Immunofluorescence"</p> <p>Authors: Zhang J,Huang B,Hu G,Zhan X,Xie T,Li S,Zhang X,Li H,Ge RS,Xu Y</p>	<p><b>Year</b> 2019</p>

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## Immunocytochemistry (4)

<p><b>Frontiers in endocrinology</b></p> <p><b>Pituispheres Contain Genetic Variants Characteristic to Pituitary Adenoma Tumor Tissue.</b></p> <p>"Published figure using CD90.1 (Thy-1.1) monoclonal antibody (Product # 11-0900-81) in Immunocytochemistry"</p> <p>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</p>	<p><b>Year</b> 2021</p> <p><b>Species</b> Human</p>
<p><b>Nature</b></p> <p><b>Single-cell transcriptomics reconstructs fate conversion from fibroblast to cardiomyocyte.</b></p> <p>"Published figure using CD90.1 (Thy-1.1) monoclonal antibody (Product # 11-0900-81) in Immunofluorescence"</p> <p>Authors: Liu Z,Wang L,Welch JD,Ma H,Zhou Y,Vaseghi HR,Yu S,Wall JB,Alimohamadi S,Zheng M,Yin C,Shen W,Prins JF,Liu J,Qian L</p>	<p><b>Year</b> 2017</p>

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## More applications with references on thermofisher.com

- Flow (73)
- Misc (3)

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