

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

Product Details

Size	50 µg
Species Reactivity	Mouse, Rat
Published Species	Rat, Mouse, Human
Host/Isotope	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HIS51
Conjugate	FITC
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465151

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.06 µg/test	33 Publications
Immunofluorescence (IF)	-	4 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

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.

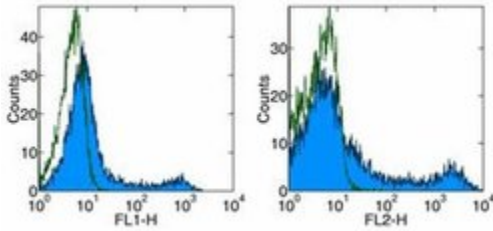
Applications Reported: The HIS51 antibody has been reported for use in flow cytometric analysis.

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 10⁵ to 10⁸ 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.

[View more figures on thermofisher.com](#)

38 References

Flow Cytometry (33)

Medical science monitor : international medical journal of experimental and clinical research

Tail Vein Infusion of Adipose-Derived Mesenchymal Stem Cell Alleviated Inflammatory Response and Improved Blood Brain Barrier Condition by Suppressing Endoplasmic Reticulum Stress in a Middle Cerebral Artery Occlusion Rat Model.

"Published figure using CD90.1 (Thy-1.1) monoclonal antibody (Product # 11-0900-81) in Flow Cytometry"

Authors: Chi L,Huang Y,Mao Y,Wu K,Zhang L,Nan G

Species
Rat

Dilution
1:200

Year
2018

Experimental and therapeutic medicine

Tanshinone IIA and Astragaloside IV promote the angiogenesis of mesenchymal stem cell-derived endothelial cell-like cells via upregulation of Cx37, Cx40 and Cx43.

"Published figure using CD90.1 (Thy-1.1) monoclonal antibody (Product # 11-0900-81) in Flow Cytometry"

Authors: Li Z,Zhang S,Cao L,Li W,Ye YC,Shi ZX,Wang ZR,Sun LX,Wang JW,Jia LT,Wang W

Species
Not Applicable

Dilution
Not Cited

Year
2018

[View more Flow references on thermofisher.com](#)

Immunofluorescence (4)

Nature

Single-cell transcriptomics reconstructs fate conversion from fibroblast to cardiomyocyte.

"Published figure using CD90.1 (Thy-1.1) monoclonal antibody (Product # 11-0900-81) in Immunofluorescence"

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

Species
Not Applicable

Dilution
Not Cited

Year
2017

FASEB journal : official publication of the Federation of American Societies for Experimental Biology

CD73-derived adenosine and tenascin-C control cytokine production by epicardium-derived cells formed after myocardial infarction.

"Published figure using CD90.1 (Thy-1.1) monoclonal antibody (Product # 11-0900-81) in Flow Cytometry"

Authors: Hesse J,Leberling S,Boden E,Friebe D,Schmidt T,Ding Z,Dieterich P,Deussen A,Roderigo C,Rose CR,Floss DM,Scheller J,Schrader J

Species
Not Applicable

Dilution
Not Cited

Year
2017

More applications with references on thermofisher.com

Misc (1)

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