

CD90.1 (Thy-1.1) Monoclonal Antibody (HIS51), eFluor 450, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse, Rat
Published Species	Mouse, Human
Host/Isotope	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), eFluor 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HIS51
Conjugate	eFluor® 450
Form	Liquid
Concentration	0.2 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_1272254

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	25 Publications
Immunofluorescence (IF)	-	4 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	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: This HIS51 antibody has been reported for use in flow cytometric analysis.

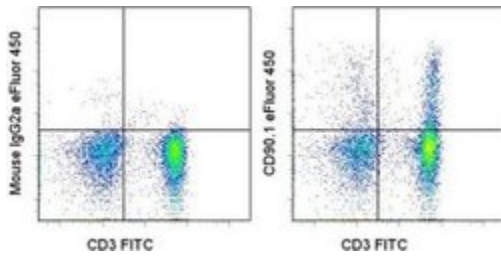
Applications Tested: This HIS51 antibody has been tested by flow cytometric analysis of rat splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined 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.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD90.1 (Thy-1.1) Monoclonal Antibody (HIS51), eFluor 450, eBioscience™



CD90.1 (Thy-1.1) Antibody (48-0900-82) in Flow

Staining of rat splenocytes with Anti-Rat CD3 FITC (Product # 11-0030-82) and 0.125 µg of Mouse IgG2a kappa Isotype Control eFluor® 450 (Product # 48-4724-82) (left) or 0.125 µg of Anti-Mouse/Rat CD90.1 (Thy-1.1) eFluor® 450 (right). Total viable cells were used for analysis.

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

Flow Cytometry (25)

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 # 48-0900-82) in Flow Cytometry"

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

Species
Not Applicable

Dilution
Not Cited

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 # 48-0900-82) 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 # 48-0900-82) 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 # 48-0900-82) 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

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

More applications with references on thermofisher.com

IHC (F) (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.