

# CD90.1 (Thy-1.1) Monoclonal Antibody (HIS51), PE, 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), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HIS51
Conjugate	PE
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_465773

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.06 µg/test	35 Publications
Immunohistochemistry (IHC)	-	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.

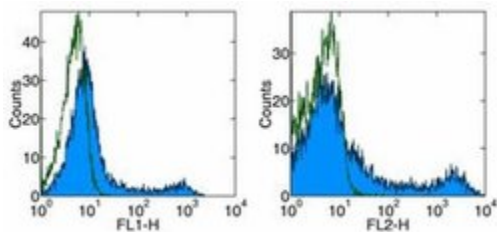
**Applications Reported:** The HIS51 antibody has been reported for use in flow cytometric analysis.

**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 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:** 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

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



### CD90.1 (Thy-1.1) Antibody (12-0900-81) in Flow

Staining of rat splenocytes with Mouse IgG2a kappa Isotype Control FITC (Product # 11-4724-42) (left, open histogram) or Mouse IgG2a kappa Isotype Control PE (Product # 12-4724-81) (right, open histogram) and Anti-Mouse/Rat CD90.1 (Thy-1.1) FITC (Product # 11-0902-82) (left, filled histogram) or 0.03 µg of Anti-Mouse/Rat CD90.1 (Thy-1.1) PE (right, filled histogram). Total viable cells were used for analysis.

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

## 36 References

### Flow Cytometry (35)

Frontiers in immunology

#### The Activity of the Neutral Sphingomyelinase Is Important in T Cell Recruitment and Directional Migration.

Authors: Collenburg L, Beyersdorf N, Wiese T, Arenz C, Saied EM, Becker-Flegler KA, Schneider-Schaulies S, Avota E

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2019

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 # 12-0900-81) in Flow Cytometry"

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

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

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

### Immunohistochemistry (1)

Clinical cancer research : an official journal of the American Association for Cancer Research

#### Heterodimeric IL15 Treatment Enhances Tumor Infiltration, Persistence, and Effector Functions of Adoptively Transferred Tumor-specific T Cells in the Absence of Lymphodepletion.

"12-0900 was used in Immunohistochemistry to study the effects of the combination regimen ACT + hetIL15 in the absence of lymphodepletion, by transferring melanoma-specific Pmel-1 T cells into B16 melanoma-bearing mice."

Authors: Ng SSM, Nagy BA, Jensen SM, Hu X, Alicea C, Fox BA, Felber BK, Bergamaschi C, Pavlakis GN

**Species**  
Mouse

**Dilution**  
1:50

**Year**  
2017

## More applications with references on thermofisher.com

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