

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

Product Details

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| Size | 50 µg |
| Species Reactivity | Mouse, Rat |
| Published Species | Mouse, Human |
| Host/Isotype | Mouse / IgG2a, kappa |
| Class | Monoclonal |
| Type | Antibody |
| Clone | HIS51 |
| Conjugate | Unconjugated |
| 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 |
| RRID | AB_467373 |

| Applications | Tested Dilution | Publications |
|---|-----------------|-----------------|
| Immunohistochemistry (IHC) | - | 5 Publications |
| Immunohistochemistry (Frozen) (IHC (F)) | Assay-Dependent | 1 Publication |
| Immunocytochemistry (ICC/IF) | - | 4 Publications |
| Flow Cytometry (Flow) | 0.125 µg/test | 71 Publications |
| Functional Assay (FN) | - | 1 Publication |
| 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, and immunohistochemical staining of frozen tissue sections.

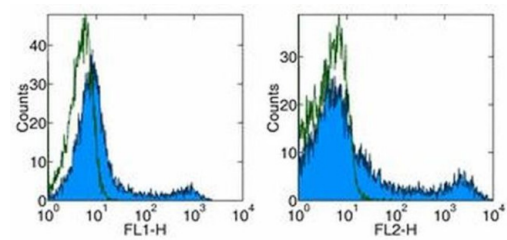
Applications Tested: The HIS51 antibody has been tested by flow cytometric analysis of rat thymocyte and splenocyte suspensions. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell 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.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD90.1 (Thy-1.1) Antibody (14-0900-81) in Flow
Surface staining of rat splenocytes with 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 (5)

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| <p>Stem cell research & therapy</p> <p>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.</p> <p>"Published figure using CD90.1 (Thy-1.1) monoclonal antibody (Product # 14-0900-81) 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>Year 2021</p> |
| <p>Frontiers in endocrinology</p> <p>Aldosterone Blocks Rat Stem Leydig Cell Development <i>In Vitro</i>.</p> <p>"Published figure using CD90.1 (Thy-1.1) monoclonal antibody (Product # 14-0900-81) 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>Year 2019</p> |

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Immunohistochemistry (Frozen) (1)

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| <p>Journal of virology</p> <p>Immunopathological basis of lymphocytic choriomeningitis virus-induced chorioretinitis and keratitis.</p> <p>"14-0900 was used in Immunohistochemistry on frozen tissues to establish that the retina is well-suited for investigating the long-term effects of LCMV-mediated immunopathological disease in this organ system."</p> <p>Authors: Zinkernagel MS,Bolinger B,Krebs P,Onder L,Miller S,Ludewig B</p> | <p>Year 2009</p> <p>Species Mouse</p> |
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Immunocytochemistry (4)

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| <p>Frontiers in endocrinology</p> <p>Pituispheres Contain Genetic Variants Characteristic to Pituitary Adenoma Tumor Tissue.</p> <p>"Published figure using CD90.1 (Thy-1.1) monoclonal antibody (Product # 14-0900-81) 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>Year 2021</p> |
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- Flow (71)
- FN (1)
- Misc (1)

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