# Antibodies

**Anti-Mouse CD90.2 (Thy-1.2) Antibody, Clone 53-2.1, FITC**

Rat monoclonal IgG2a antibody against mouse CD90.2 (Thy-1.2), FITC-conjugated

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| Catalog | #60115FI | 500 µg | 0.5 mg/mL |
| | #60115FI.1 | 100 µg | 0.5 mg/mL |
| | #60115FI.2 | 50 µg | 0.5 mg/mL |

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## Product Description

The 53-2.1 monoclonal antibody reacts with mouse CD90.2 (Thy-1.2), an ~25 - 35 kDa glycophosphatidylinositol (GPI)-anchored glycoprotein expressed at high levels on the surface of thymocytes, most peripheral T cells and lymphatic endothelial cells, and at lower levels on hematopoietic stem cells, some intraepithelial T lymphocytes, fibroblasts, and neurons. CD90.2 is an allelic form of the CD90 antigen expressed by mouse strains BALB/c, C3H/He, C57BL/6, C58/, CBA/J, DBA, NZB/-, SJL, and others. The 53-2.1 antibody does not react with CD90.1, which is expressed by mouse strains such as AKR/J, PL, and FVB/N, or with rat CD90. CD90.2 has been shown to be involved in costimulation of lymphocyte proliferation, as well as in hematopoietic stem cell differentiation and thymocyte adhesion. The 53-2.1 antibody reportedly blocks the binding of antibody clone 30-H12.

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| Target Antigen Name: | CD90.2 (Thy-1.2) |
| Alternative Names: | T25, Thy-1.2, Thy 1b, Thymus cell antigen 1 theta |
| Gene ID: | 21838 |
| Species Reactivity: | Mouse (does not react with CD90.1/Thy-1.1) |
| Host Species: | Rat (LOU) |
| Clonality: | Monoclonal |
| Clone: | 53-2.1 |
| Isotype: | IgG2a, kappa |
| Immunogen: | Mouse thymus or spleen cells |
| Conjugate: | FITC |

## Applications

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| Verified: | FC |
| Reported: | FC, ICC, IF, IHC |
| Special Applications: | This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse T Cell Isolation Kit (Catalog #19851), EasySep™ Mouse CD4+ T Cell Isolation Kit (Catalog #19852), and EasySep™ Mouse CD8+ T Cell Isolation Kit (Catalog #19853). |

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

## Properties

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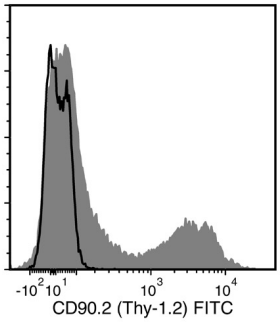
| Formulation: | Aqueous buffer containing 0.09% sodium azide, may contain carrier protein/stabilizer |
| Purification: | The antibody was purified by column chromatography. |
| Stability and Storage: | Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com. |
| Directions for Use: | For flow cytometry the suggested use of this antibody is ≤ 0.25 µg per 1 x 10^6 cells in 100 µL. It is recommended that the antibody be titrated for optimal performance for each application. |

## Data




Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD90.2 (Thy-1.2) Antibody, Clone 53-2.1, FITC (filled histogram) or Rat IgG2a, kappa Isotype Control Antibody, Clone RTK2758, FITC (Catalog #60076FI) (solid line histogram).

## Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

## References

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4. Bailey SL et al. (2007) CNS myeloid DCs presenting endogenous myelin peptides “preferentially” polarize CD4+ T(H)-17 cells in relapsing EAE. Nat Immunol 8(2): 172–80. (FA, FC)
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7. Jameson JM et al. (2004) A keratinocyte-responsive gamma delta TCR is necessary for dendritic epidermal T cell activation by damaged keratinocytes and maintenance in the epidermis. J Immunol 172(6): 3573–9. (FC, IF, IHC)
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