

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



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Antibodies

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

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

Product Description

The 53-2.1 monoclonal antibody reacts with mouse CD90.2 (Thy-1.2), an ~25 - 35 kDa glycoposphatidylinositol (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.

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:	Biotin

Applications

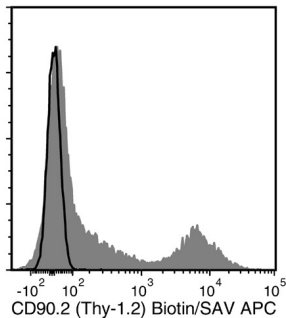
Verified:	FC
Reported:	FC, IF, IHC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse T Cell Isolation Kit (Catalog #19851), EasySep™ Mouse CD4+ T Cell Isolation Kit (Catalog #19852), and EasySep™ Mouse CD8+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

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. For product expiry date, please contact techsupport@stemcell.com .
Directions for Use:	For flow cytometry the suggested use of this antibody is ≤ 0.06 µg per 1 × 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, Biotin, followed by streptavidin (SAV) APC (filled histogram), or Rat IgG2a, kappa Isotype Control Antibody, Clone RTK2758, Biotin (Catalog #60076BT), followed by SAV APC (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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