

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



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TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

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Antibodies

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

Catalog #60115FI	500 µg	0.5 mg/mL
#60115FI.1	100 µg	0.5 mg/mL
#60115FI.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:	FITC (Fluorescein isothiocyanate)

Applications

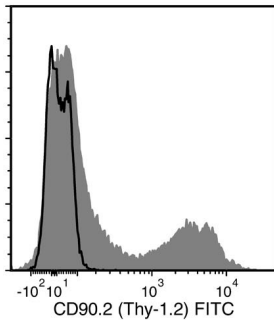
Verified:	FC
Reported:	FC, ICC, IF, IHC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse T Cell Isolation Kit (Catalog #19851), EasySep™ Mouse CD4+ T Cell Isolation Kit (Catalog #19852), and EasySep™ Mouse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

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
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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