

## Biotin anti-mouse CD90.2 (Thy1.2)

**Catalog # / Size:** 140313 / 50 µg  
140314 / 500 µg

**Clone:** 53-2.1

**Isotype:** Rat IgG2a, κ

**Immunogen:** Mouse thymus or spleen

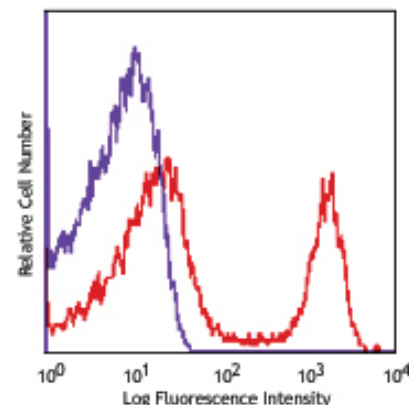
**Reactivity:** Mouse, Does not react with Thy-1.1 (CD90.1)

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

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

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



*C57BL/6 mouse splenocytes stained with biotinylated CD90.2 (53-2.1), followed by Sav-PE (the FcR-mediated binding was blocked by pre-incubation with anti-mouse CD16/32, clone 93)*

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.06 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunohistochemical staining<sup>1</sup> of frozen tissue section, immunofluorescence<sup>2</sup>, and immunoprecipitation<sup>3</sup>.

**Application References:**

1. Aldrich M, *et al.* 2003. *J. Immunol.* 171:5562. (IHC)
2. Jameson J, *et al.* 2004. *J. Immunol.* 172:3573. (IF)
3. Okada C, *et al.* 1990. *J. Immunol.* 144:3473. (IP)

**Description:** CD90.2 is a 25-35 kD immunoglobulin superfamily member also known as Thy-1.2, a GPI-linked membrane molecule. It is expressed on hematopoietic stem cells and neurons, all thymocytes, and peripheral T cells in Thy1.2 bearing mouse strains (Balb/c, CBA/J, C3H/He, C57BL/-, DBA, NZB/-). CD90.2 is a glycosylphosphatidylinositol (GPI)-anchored membrane glycoprotein involved in signal transduction. CD90.2 is involved in costimulation of lymphocyte proliferation and induction of hematopoietic stem cells differentiation. CD90.2 has been shown to interact with CD45.

**Antigen References:**

1. Borrello M, *et al.* 1996. *Cell. Immunol.* 173:198.
2. Radrizzani M, *et al.* 1995. *J. Neurosci. Res.* 42:220.
3. Williams A, *et al.* 1982. *Science* 216:696.

Related Products:	Product	Clone	Application
	Biotin Rat IgG2a, κ Isotype Ctrl	RTK2758	FC, ICFC
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	TruStain fcX™ (anti-mouse CD16/32)	93	FC



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