

## Purified anti-mouse CD90.2 (Thy-1.2)

**Catalog # / Size:** 140301 / 50 µg  
140302 / 500 µg

**Clone:** 53-2.1

**Isotype:** Rat IgG2a, κ

**Immunogen:** Mouse thymus or spleen

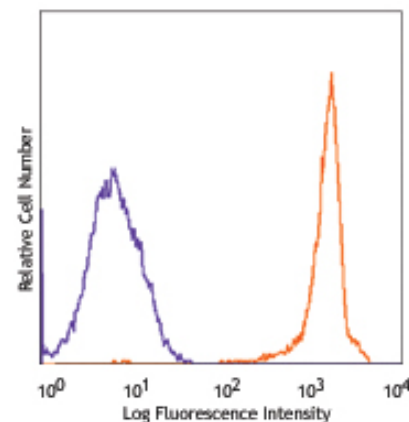
**Reactivity:** Mouse, Does not react with Thy-1.1 (CD90.1)

**Preparation:** The antibody was purified by affinity chromatography.

**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.



C57BL/6 mouse thymocytes stained with purified CD90.2 (53-2.1) conjugated with FITC

## Applications:

**Applications:** FC - *Quality tested*  
IHC, IF, IP - *Reported in the literature*

**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  $\leq 0.06$  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

Purified Rat IgG2a, κ Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)

### Clone

RTK2758

### Application

FC, ICC, IF, IHC, IP, WB  
FC, ICC, ICFC  
FC, ICFC



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biolegend.com/ordering#license](http://www.biolegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.