

# CD90.2 (Thy-1.2) Monoclonal Antibody (53-2.1), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Fish, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	53-2.1
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465776

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.03 µg/test	16 Publications
Immunofluorescence (IF)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication

## Product Specific Information

Description: The 53-2.1 monoclonal antibody reacts with mouse CD90.2 also known as Thy-1.2, a GPI-linked membrane molecule. CD90.2 is expressed by mouse thymocytes and mature T cells as well as neurons in CD90.2-expressing mouse strains. These strains include BALB/c, CBA, C3H, C57BL/6, C58/, SJL and others. Cells from CD90.1-expressing strains including PL and AKR do not stain with 53-2.1. CD90 is involved in regulation of adhesion and signal transduction by T cells.

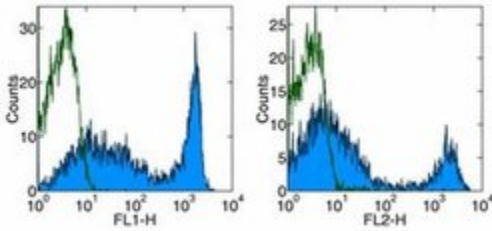
Applications Reported: The 53-2.1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The 53-2.1 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.03 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD90.2 (Thy-1.2) Monoclonal Antibody (53-2.1), PE, eBioscience™



### CD90.2 (Thy-1.2) Antibody (12-0902-82) in Flow

Staining of mouse splenocytes with Rat IgG2a kappa Isotype Control FITC (Product # 11-4321-42) (left, open histogram) or Rat IgG2a kappa Isotype Control PE (Product # 12-4321-80) (right, open histogram) and Anti-Mouse CD90.2 (Thy-1.2) FITC (Product # 11-0903-82) (left, filled histogram) or Anti-Mouse CD90.2 (Thy-1.2) PE (right, filled histogram). Total viable cells were used for analysis.

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## 18 References

### Immunohistochemistry (Frozen) (1)

The American journal of pathology

#### Distinct developmental requirements for isolated lymphoid follicle formation in the small and large intestine: RANKL is essential only in the small intestine.

"12-0902 was used in Immunofluorescence to study the role of RANKL in the development of cryptopatches and isolated lymphoid follicles within intestinal lymphoid tissues."

Authors: Knoop KA,Butler BR,Kumar N,Newberry RD,Williams IR

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2011

### Immunofluorescence (1)

The American journal of pathology

#### Distinct developmental requirements for isolated lymphoid follicle formation in the small and large intestine: RANKL is essential only in the small intestine.

"12-0902 was used in Immunofluorescence to study the role of RANKL in the development of cryptopatches and isolated lymphoid follicles within intestinal lymphoid tissues."

Authors: Knoop KA,Butler BR,Kumar N,Newberry RD,Williams IR

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2011

### Flow Cytometry (16)

Immunity

#### T regulatory cells maintain intestinal homeostasis by suppressing T cells.

"12-0902 was used in Flow cytometry/Cell sorting to explore the regulatory processes maintaining a tolerogenic attitude towards enteric commensal bacteria."

Authors: Park SG,Mathur R,Long M,Hosh N,Hao L,Hayden MS,Ghosh S

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2010

The Journal of clinical investigation

#### Mutations in 5-methylcytosine oxidase TET2 and RhoA cooperatively disrupt T cell homeostasis.

"Published figure using CD90.2 (Thy-1.2) monoclonal antibody (Product # 12-0902-82) in Flow Cytometry"

Authors: Zang S,Li J,Yang H,Zeng H,Han W,Zhang J,Lee M,Moczygemba M,Isgandarova S,Yang Y,Zhou Y,Rao A,You MJ,Sun D,Huang Y

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2017

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