

PE anti-mouse CD90 (Thy1) Antibody

Catalog# / Size	166407 / 25 µg 166408 / 100 µg
Clone	W20280E
Regulatory Status	RUO
Other Names	Thy-1, Thy1
Isotype	Rat IgG2a, κ
Description	CD90, also known as Thy-1, is a 25-35 kD immunoglobulin superfamily member. It is expressed on hematopoietic stem cells, neurons, all thymocytes, and peripheral T cells, but not on B cells. CD90 is a glycosylphosphatidylinositol (GPI)-anchored membrane glycoprotein involved in signal transduction. CD90 is involved in co-stimulation of lymphocyte proliferation and activation, and hematopoietic stem cell differentiation. CD90 has been shown to interact with CD45.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Recombinant mouse CD90 protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	Precise lot-specific concentrations are provided for accurate titration due to the low recommended usage of this product. To obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.0075 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Clone W20280E can recognize both mouse CD90.1 (Thy1.1) and CD90.2 (Thy1.2) variants.
RRID	AB_3683188 (BioLegend Cat. No. 166407) AB_3683188 (BioLegend Cat. No. 166408)

Antigen Details

Structure	Ig superfamily, 25-35 kD
Distribution	Hematopoietic stem cells and neurons, thymocytes, T cells

Function	Lymphocyte costimulation, proliferation and differentiation of hematopoietic stem cells
Ligand/Receptor	CD45
Cell Type	Endothelial cells, Fibroblasts, Hematopoietic stem and progenitors, Leukemia, Mesenchymal Stem Cells, Neurons, Thymocytes
Biology Area	Immunology, Stem Cells
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Barclay A, <i>et al.</i> 1997. <i>The Leukocyte Antigen FactsBook</i> Academic Press. 2. Craig W, <i>et al.</i> 1993. <i>J Exp Med.</i> 177:1331-42. 3. Mayani H, <i>et al.</i> 1994. <i>Blood.</i> 83:2410-7.
Gene ID	21838

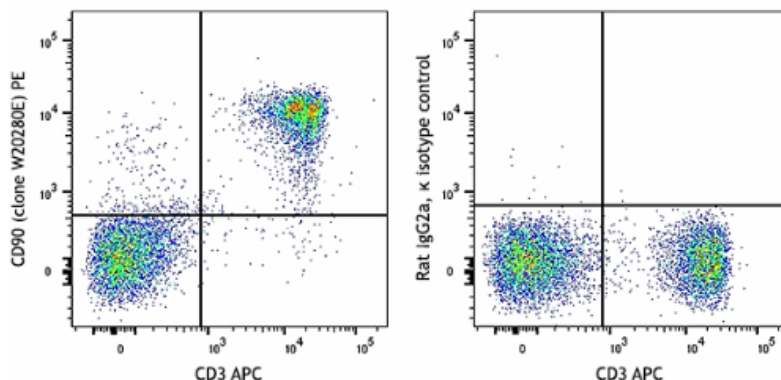
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD90 (Thy1), FITC anti-mouse CD90 (Thy1), APC anti-mouse CD90 (Thy1), PE anti-mouse CD90 (Thy1), PE/Cyanine7 anti-mouse CD90 (Thy1)

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD3 (clone 17A2) APC and anti-mouse CD90 (Thy1) (clone W20280E) PE (left) or rat IgG2a, κ PE isotype control (right).

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