

PerCP/Fire™ 780 anti-mouse CD90.1 (Thy1.1) Antibody

Catalog# / Size	109009 / 25 µg 109010 / 100 µg
Clone	S20007C
Regulatory Status	RUO
Other Names	Thy-1, Thy-1.1, CD90, CD90.1
Isotype	Mouse IgG2b, κ
Description	CD90, also known as Thy-1, is a 28-30 kD GPI-linked membrane glycoprotein. It is a member of the immunoglobulin superfamily and has been shown to interact with CD45 in signal transduction during lymphocyte proliferation and differentiation. CD90 is expressed on hematopoietic stem cells, neurons, thymocytes, peripheral T cells, fibroblasts, stromal cells.

Product Details

Verified Reactivity	Mouse, Rat
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Mouse Thy1.1 transfected cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with PerCP/Fire™ 780 under optimal conditions.
Concentration	0.2 mg/mL
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 ≤ 0.125 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * PerCP/Fire™ 780 has a maximum excitation of 478 nm and a maximum emission of 780 nm.
Excitation Laser	Blue Laser (488 nm)
Application Notes	Clone S20007C antibody reacts with rat CD90 and mouse CD90.1 (Thy 1.1), which is expressed by AKR/J, PL, and FVB strains, but not CD90.2 strains (C57BL/6, BalB/C, etc). Clone S20007C partially blocks binding of clone OX-7 on target cells.
RRID	AB_3674970 (BioLegend Cat. No. 109009) AB_3674970 (BioLegend Cat. No. 109010)

Antigen Details

Structure	Ig superfamily, GPI-anchored membrane glycoprotein, 28-30 kD
Distribution	Hematopoietic stem cells, thymocytes, a subset of peripheral blood T cells, early myeloid and erythroid progenitors, immature B cells, neurons, activated endothelium, mast cells, dendritic cells,

glomeruli

Function	Adhesion, signal transduction, lymphocyte co-stimulation, proliferation and differentiation of hematopoietic stem cells
Ligand/Receptor	Interacts with CD45
Cell Type	Antigen-presenting cells, B cells, Dendritic cells, Endothelial cells, Fibroblasts, Hematopoietic stem and progenitors, Mesenchymal Stem Cells, Neurons, T cells, Thymocytes
Biology Area	Apoptosis/Tumor Suppressors/Cell Death, Cell Adhesion, Cell Death, Immunology, Neuroscience, Neuroscience Cell Markers, Stem Cells
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Campbell DG, <i>et al.</i> 1981. <i>Biochem J.</i> 195:15-30. 2. Hosseinzadeh H and Goldschneider I. 1993. <i>J Immunol.</i> 150:1670-9.
Gene ID	21838 24832

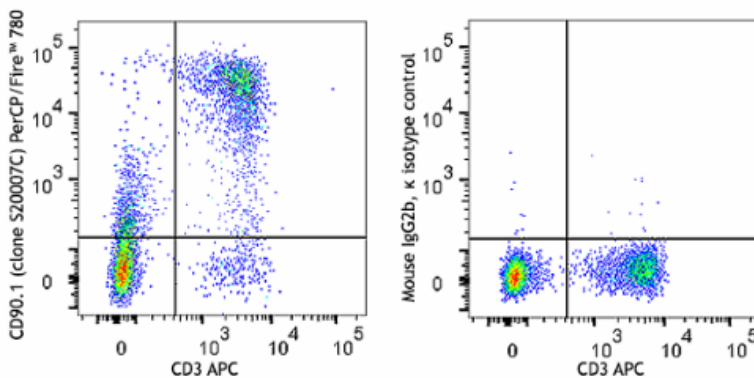
Related Protocols

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

Other Formats

Purified anti-mouse CD90.1 (Thy1.1), PerCP/Cyanine5.5 anti-mouse CD90.1 (Thy1.1), PE anti-mouse CD90.1 (Thy1.1), FITC anti-mouse CD90.1 (Thy1.1), PerCP/Fire™ 780 anti-mouse CD90.1 (Thy1.1)

Product Data



FVB mouse splenocytes were stained with anti-mouse CD3 (clone 17A2) APC and anti-mouse CD90.1 (Thy1.1) (clone S20007C) PerCP/Fire™ 780 (left) or mouse IgG2b, κ PerCP/Fire™ 780 isotype control (right).

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