

Spark PLUS UV395™ anti-mouse CD90.2 (Thy1.2) Antibody

Catalog# / Size	164805 / 25 µg 164806 / 100 µg
Clone	S20008D
Regulatory Status	RUO
Other Names	Thy-1, Thy-1.2, CD90, CD90.2, Th1.2
Isotype	Mouse IgG2b, κ
Description	CD90.2 is a 25-35 kD immunoglobulin superfamily member also known as Thy1.2. 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.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Mouse Thy1.2 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 Spark PLUS UV395™ 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. * Spark PLUS UV395™ has a maximum excitation of 355 nm and a maximum emission of 385 nm.
Excitation Laser	Ultraviolet Laser (355 nm)
Application Notes	Clone S20008D antibody reacts with mouse CD90.2 (Thy 1.2) which is expressed by C57BL/6 and BALB/C strains, but not on CD90.1 strains (AKR/J, PL, FVB, etc.). Clone S20008D can completely block binding of clone 30-H12 on target cells. To reduce non-specific binding to cells bearing Fc-receptors, pre-incubation of cells with TruStain FcX™ PLUS (anti-mouse CD16/32) Antibody (Cat. No. 156603 & 156604) is recommended prior to staining.
RRID	AB_3683183 (BioLegend Cat. No. 164805) AB_3683183 (BioLegend Cat. No. 164806)

Antigen Details

Structure	Ig superfamily, 25-35 kD
Distribution	Hematopoietic stem cells and neurons, all thymocytes, peripheral T cells of the Thy-1.2 bearing mice
Function	Lymphocyte costimulation, proliferation and differentiation of hematopoietic stem cells
Ligand/Receptor	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	<ol style="list-style-type: none"> 1. Barclay A, <i>et al.</i> 1997. <i>The Leukocyte Antigen FactsBook Academic Press.</i> 2. Craig W, <i>et al.</i> 1993. <i>J Exp Med.</i> 177:1331-42. 3. Reif AE & Schlesinger M. 1989. <i>Cell Surface Antigen Thy-1.</i> 4. Mayani H, <i>et al.</i> 1994. <i>Blood.</i> 83:2410-7.
Gene ID	21838

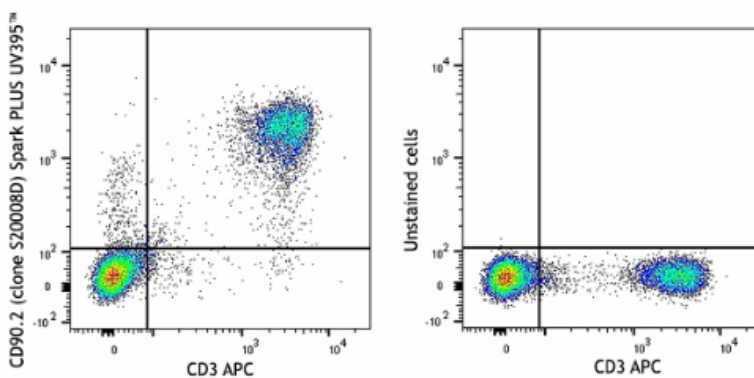
Related Protocols

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

Other Formats

Purified anti-mouse CD90.2 (Thy1.2), Spark UV™ 387 anti-mouse CD90.2 (Thy1.2), Spark PLUS UV395™ anti-mouse CD90.2 (Thy1.2) Antibody

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD3 (clone 17A2) APC and anti-mouse CD90.2 (Thy1.2) (clone S20008D) Spark PLUS UV395™ (left) or stained with anti-mouse CD3 (clone 17A2) APC only (right).

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