

PE anti-human CD90 (Thy1) Antibody

Catalog# / Size	389807 / 25 tests 389808 / 100 tests
Clone	S22015B
Regulatory Status	RUO
Other Names	Thy-1, Thy1
Isotype	Mouse IgG1, κ
Description	CD90, also known as Thy-1, is a 25-35 kD GPI-anchored protein. It belongs to the Ig superfamily. Human CD90 is expressed on neuronal cells, a subset of CD34+ cells, a subset of fetal liver cells and fetal thymocytes, fibroblasts, activated endothelial cells, and some leukemia cell lines. CD34+CD90+ cells are primitive hematopoietic stem cells. It has been reported that Thy-1 binds with $\beta 2$ and $\beta 3$ integrins and plays bimodal roles in the regulation of cell adhesion and neurite outgrowth, and inhibits hematopoietic stem cells proliferation and differentiation.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human CD90-transfected cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	Lot-specific (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 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. 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 S22015B is able to completely block the binding of clone 5E10 on target cells. Clone S22015B does not block the binding of clone S22015F on target cells.
RRID	AB_3717199 (BioLegend Cat. No. 389807) AB_3717199 (BioLegend Cat. No. 389808)

Antigen Details

Structure	25-35 kD glycoprotein, Ig superfamily
Distribution	Subset of CD34+ hematopoietic stem cells, subset of fetal thymocytes, subset of fetal liver cells, fibroblast, activated endothelial cells, neurons, and some leukemia cell lines
Function	Cell adhesion
Cell Type	Endothelial cells, Fibroblasts, Hematopoietic stem and progenitors, Leukemia, Neurons, Thymocytes
Biology Area	Cell Adhesion, Neurodegeneration, Neuroscience, Stem Cells
Molecular Family	CD Molecules
Antigen References	1. McKenzie JL, <i>et al.</i> 1981. <i>J Immunol.</i> 126:843-50. 2. Avalos AM, <i>et al.</i> 2002. <i>Biol Res.</i> 35:231-8. 3. Wetzel A, <i>et al.</i> 2004. <i>J Immunol.</i> 172:3850-9.
Gene ID	7070

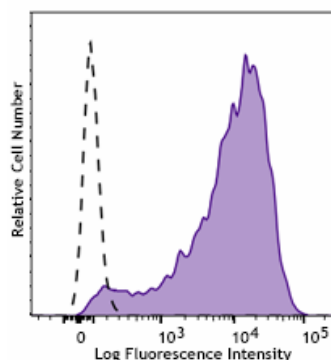
Related Protocols

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

Other Formats

Purified anti-human CD90 (Thy1), PE anti-human CD90 (Thy1) Antibody, FITC anti-human CD90 (Thy1) Antibody, APC anti-human CD90 (Thy1) Antibody

Product Data



HEL cells (human erythroleukemia cell line) were stained with anti-human CD90 (Thy1) (clone S22015B) PE (filled histogram) or mouse IgG1, κ PE isotype control (open histogram).

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