

Ultra-LEAF™ Purified anti-rat CD90 Antibody

Catalog# / Size	206204 / 500 µg
Clone	13H7
Regulatory Status	RUO
Other Names	Thy-1
Isotype	Mouse IgG3, 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	Rat
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	PC12 cells
Formulation	0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.01 EU/µg of the protein (<0.001 ng/µg of the protein) as determined by the LAL test.
Preparation	The Ultra-LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
Concentration	The antibody is bottled at the concentration indicated on the vial, typically between 2 mg/mL and 3 mg/mL. Older lots may have also been bottled at 1 mg/mL. To obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. This Ultra-LEAF™ solution contains no preservative; handle under aseptic conditions.
Application	FC - Quality tested IP, WB - Reported in the literature, not verified in house
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 ≤0.5 µg per million cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Application References (PubMed link indicates BioLegend citation)	1. Kuroiwa K, <i>et al.</i> 2012. <i>Hybridoma</i> 31:225.
RRID	AB_2616640 (BioLegend Cat. No. 206204)

Antigen Details

Structure	Ig superfamily, GPI-anchored membrane glycoprotein.
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	Hematopoietic stem and progenitors, Thymocytes, T cells, Neurons, Mast cells, Dendritic cells, B cells
Biology Area	Immunology
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Campbell DG, <i>et al.</i> 1981. <i>Biochem. J.</i> 195:15. 2. Hosseinzadeh H, <i>et al.</i> 1993. <i>J. Immunol.</i> 150:1670.
Gene ID	21838

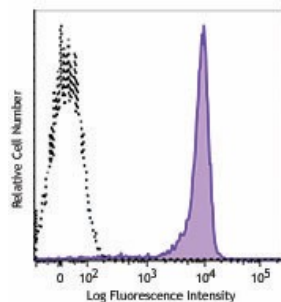
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Ultra-LEAF™ Purified anti-rat CD90

Product Data



LOU rat thymocytes were stained with purified rat CD90 (clone 13H7, filled histogram) or purified mouse IgG3, κ isotype control (open histogram) followed by anti-mouse IgG PE.

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