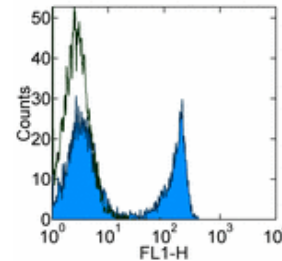


Product Information

Contents: Affinity Purified anti-mouse CD90
Catalog Number: 14-0901
Sizes: 50 ug, 100 ug, 500 ug
Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃
Storage Conditions: Store at 4°C.
Avoid repeated freeze/thaw cycles.
Clone: G7
Isotype: Rat IgG2c, κ



Staining of C57Bl/6 splenocytes with 0.06 µg of Purified Rat IgG1 Iso Cntrl (cat. 14-4301) (open histogram) or 0.06 µg of Purified G7 (colored histogram) followed by FITC Anti-Rat IgG (cat. 11-4811). Total viable cells were used for analysis.

Available Formats of This Product				
Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
14-0901	Affinity Purified anti-mouse CD90 (Thy-1, Thy1)	N/A	N/A	FA FC IHC
16-0901	Functional Grade* Purified anti-mouse CD90 (Thy-1, Thy1)	N/A	N/A	FA FC

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/µg.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

Description

The G7 monoclonal antibody reacts with mouse CD90 also known as Thy-1, a GPI-linked membrane molecule. CD90 is expressed by early hematopoietic cells in the bone marrow, thymocytes and mature T cells as well as neurons. CD90 is involved in regulation of adhesion and signal transduction by T cells. G7 is reported to induce TCR-mediated proliferation of T cell and apoptosis of thymocytes.

Usage

For research use only, not for diagnostic or therapeutic use. The G7 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining. G7 has also been reported in functional studies. (Please use Functional Grade purified G7, cat. 16-0901, in functional assays.)

Applications Tested

The G7 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions and can be used at less than or equal to 0.5 µg/million cells. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 16-0901 Functional Grade Purified anti-mouse CD90 (Thy-1, Thy1) (clone G7)
Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
Cat. 11-4811 FITC Anti-Rat IgG
Cat. 13-4813 Biotin Anti-Rat IgG (clone Polyclonal)

References

Gunter, K. C., T. R. Malek, et al. (1984). "T cell-activating properties of an anti-Thy-1 monoclonal antibody. Possible analogy to

OKT3/Leu-4." J Exp Med 159(3): 716-30.

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