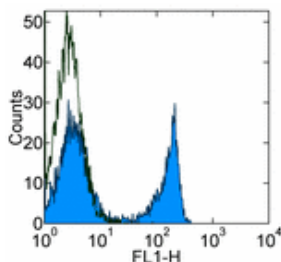


Anti-Mouse CD90 (Thy-1) Purified

Catalog Number: 14-0901

Also Known As: Thy1

RUO: For Research Use Only



Staining of C57BL/6 splenocytes with 0.06 µg of Rat IgG1 κ Isotype Control Purified (cat. 14-4301) (open histogram) or 0.06 µg of Anti-Mouse CD90 (Thy-1) Purified (filled histogram) followed by Anti-Rat IgG FITC (cat. 11-4811). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD90 (Thy-1) Purified


REF Catalog Number: 14-0901

Clone: G7


Concentration: 0.5 mg/ml


Host/Isotype: Rat IgG2c, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

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.

Applications Reported

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 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Gui M, Wiest DL, Li J, Kappes D, Hardy RR, Hayakawa K. Peripheral CD4+ T cell maturation recognized by increased expression of Thy-1/CD90 bearing the 6C10 carbohydrate epitope. *J Immunol.* 1999 Nov 1;163(9):4796-804. (in vitro stimulation)

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.

Related Products

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

17-4317 Streptavidin APC

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