

Monoclonal Antibody to CD90.2 - FITC

Alternate names: CD90, Thy-1, Thy-1 membrane glycoprotein, Thy-1.2, Thy1.2

Catalog No.: AM08055FC-N

Quantity: 0.5 mg

Concentration: 0.5 mg/ml

Background: CD90/Thy-1 is a GPI-anchored molecule and one of the smallest members of the immunoglobulin superfamily, consisting of a single V-set domain. (Ref.1-3)
The Thy-1.2 alloantigen is expressed on all thymocytes, peripheral T lymphocytes, and some intraepithelial T cells of most mouse strains. It is also expressed in the brain and at varying levels on other non-lymphoid tissues. The 30-H12 monoclonal antibody does not cross react with Mouse and Rat strains bearing the Thy-1.1 alloantigen (e.g., AKR/J,PL). (Ref.2-5).

Uniprot ID: [P01831](#)

NCBI: [NP_033408.1](#)

GeneID: [21838](#)

Host / Isotype: Rat / IgG2b

Clone: 30-H12

Format: **State:** Liquid purified Ig fraction.
Buffer System: PBS containing 0.09% Sodium Azide as preservative.
Label: FITC – Fluorescein Isothiocyanate Isomer 1

Applications: **Flow Cytometry:** < / = 1 µg/10e6 cells. (Ref.4,5)
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody recognises CD90.2/Thy-1.2 alloantigen (Mr. 18 kDa).
Species: Mouse.
Other species not tested.

Storage: Store the antibody undiluted at 2-8°C.
DO NOT FREEZE!
This product is photosensitive and should be protected from light.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: 1. Homans, S.W., et al. 1988. Nature 333:269.
2. William, A.F., and J. Gagnon. 1982. Science 216:696.
3. Williams, A.F. 1989. In: Cell Surface Antigen Thy-1 (A.E. Reif and M. Schlesinger, eds) Marcel Dekker, New York, pp. 49-69.
4. Ledbetter, J.A., et al. 1980. J. Exp. Med. 152:280.

5. Ledbetter, J.A. , and L.A. Herzenberg. 1979. Immunol. Rev. 47:63.
6. Southern Biotechnology Associates, Inc. 1997. Unpublished observations.
7. Hathcock, K.S. 1991. In: Current Protocols in Immunology (J.E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, and W. Strober, eds) John Wiley & Sons, New York, NY, pp. 3.4.1-3.4.3.
8. Kruisbeek, A.M. 1991. In: Current Protocols in Immunology (J.E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, and W. Strober, eds) John Wiley & Sons, New York, NY, pp. 4.1.1-4.1.5.

Pictures:

Immunofluorescent Staining: BALB/c splenocytes were double-stained with Rat anti-Mouse CD90.2-FITC and Rat anti-Mouse CD19-PE. Small lymphocytes were then gated and analyzed on a FACScan(TM) flowcytometer (BDIS, San Jose, CA). Amount Used: 0.3 µg/10e6 cells.

