

## Monoclonal Antibody to CD90 - FITC

<b>Alternate names:</b>	CDw90, THY1, Thy-1, Thy-1 membrane glycoprotein
<b>Catalog No.:</b>	AM08054FC-S
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	CD90/Thy-1, a GPI-anchored molecule and one of the smallest members of the immunoglobulin superfamily of cell surface receptors, consists of a single V-set domain. (Ref.1-4) It is expressed on thymocytes, peripheral T lymphocytes, some intraepithelial T lymphocytes and neurons of all mouse strains. (Ref.1,2) MAb G7 stimulates T-cell proliferation and IL-2 secretion, via signalling through the T-cell receptor/CD3 complex. (Ref.1,5-7). It has also been reported to promote apoptosis of thymocytes and CTL clones (Ref.4,7) and to mediate adhesion of thymocytes to thymic stroma. (Ref.8)
<b>Uniprot ID:</b>	<a href="#">P01831</a>
<b>NCBI:</b>	<a href="#">NP_033408.1</a>
<b>GeneID:</b>	<a href="#">21838</a>
<b>Host / Isotype:</b>	Rat / IgG2c
<b>Clone:</b>	G7
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Buffer System:</b> PBS containing 0.09% Sodium Azide as preservative. <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	<b>Flow Cytometry:</b> < / = 1 µg/10e6 cells. (Ref.1,10) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises Thy-1.1 and Thy-1.2 alloantigens (Thy-1 epitope region A). <b>Species:</b> Mouse. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C. <b>DO NOT FREEZE!</b> This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Gunter, K., T. Malek, and E. Shevach. 1984. T-cell activating properties of an anti-Thy-1 monoclonal antibody. J. Exp. Med. 159:716. 2. Williams, A.F., and J. Gagnon. 1982. Science 216:696. 3. Kroczek, R.A., K.C. Gunter, R.N. Germain, and E.M. Shevach. 1986. Nature 322:181. 4. Hueber, A.O., G. Raposo, M. Pierres, and H.-T. He. 1994. J. Exp. Med. 179:785.

**For research and in vitro use only. Not for diagnostic or therapeutic work.**  
Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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5. Tentori, L., D.M. Pardoll, J.C. Zunigaq, J. Hu-Li, W.E. Paul, J.A. Bluestone, and A.M. Kruisbeek. 1988. *J. Immunol.* 140:1089.
6. Sugiyama, E., A. Cantagrei, T. Reno, F. Stafford-Brady, E.T.H. Yeh, and J.V. Bonventre. 1990. *Cell. Immunol.* 130:271.
7. Ucker, D.S., J. Meyers, and P.S. Obermuller. 1992. *J. Immunol.* 149:1583.
8. He, H.-T., P. Naquet, D. Caillol, and M. Pierres. 1991. *J. Exp. Med.* 173:515.
9. Kruisbeek, A.M., and E. Shevach. 1991. Proliferative assays for T cell function. In: *Current Protocols in Immunology*. Coligan, J., A. Kruisbeek, D. Margulies, E.M. Shevach, and W. Strober. John Wiley & Sons, New York, NY, pp. 3.12.1-3.12.14.
10. Southern Biotechnology Associates, Inc. Unpublished observations.

**Pictures:**

**Immunofluorescent Staining:** BALB/c mesenteric lymph node cells were stained with either Rat IgG2c-FITC (as a Negative Control) or Rat anti-Mouse CD90-FITC. Lymphocytes were then gated and analyzed on a FACScan(TM) flow cytometer (BDIS, San Jose, CA). Amount Used: 1 µg/10e6 cells.

