

Monoclonal Antibody to CD90 - Low Endotoxin

Alternate names:	CDw90, THY1, Thy-1, Thy-1 membrane glycoprotein
Catalog No.:	AM08054LE-N
Quantity:	0.5 mg
Concentration:	0.5 mg/ml
Background:	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)
Uniprot ID:	P01831
NCBI:	NP_033408.1
GeneID:	21838
Host / Isotype:	Rat / IgG2c
Clone:	G7
Format:	State: Liquid purified Ig fraction. Buffer System: PBS without preservatives.
Applications:	Flow Cytometry. (Ref.1,10) Immunohistochemistry (Acetone-Fixed, Frozen Sections). (Ref.10) In vitro T Cell Activation. (Ref.1,5,6,9) Induction of apoptosis. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises Thy-1.1 and Thy-1.2 alloantigens (Thy-1 epitope region A). 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) Species: Mouse. Other species not tested.
Storage:	Store the antibody undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Gunter, K., T. Malek, and E. Shevach. 1984. T-cell activating properties of an anti-Thy-1 monoclonal antibody. <i>J. Exp. Med.</i> 159:716. 2. Williams, A.F., and J. Gagnon. 1982. <i>Science</i> 216:696. 3. Kroczek, R.A., K.C. Gunter, R.N. Germain, and E.M. Shevach. 1986. <i>Nature</i> 322:181.

For research and in vitro use only. Not for diagnostic or therapeutic work.
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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.
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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.

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