

## Monoclonal Antibody to CD90 - Purified

<b>Alternate names:</b>	CDw90, THY1, Thy-1, Thy-1 membrane glycoprotein
<b>Catalog No.:</b>	AM08054PU-N
<b>Quantity:</b>	0.5 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)
<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> 100 mM Borate Buffered Saline, pH 8.2. No preservatives or amine-containing buffer salts added.
<b>Applications:</b>	<b>Flow Cytometry.</b> (Ref.1,10) <b>Immunohistochemistry (Acetone-Fixed, Frozen Sections).</b> (Ref.10) <b>In vitro T Cell Activation.</b> (Ref.1,5,6,9) <b>Induction of apoptosis.</b> 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). 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>Species:</b> Mouse. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. 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. <i>J. Exp. Med.</i> 159:716. 2. Williams, A.F., and J. Gagnon. 1982. <i>Science</i> 216:696.

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Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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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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10. Southern Biotechnology Associates, Inc. Unpublished observations.

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