

Monoclonal Antibody to CD90 (Thy1.2) - Azide Free

Alternate names:	CDw90, THY1, Thy-1, Thy-1 membrane glycoprotein
Catalog No.:	SM3158A
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	Thy-1 (CD90) is a 18 kDa plasma membrane antigen expressed by hematopoietic cells and neurons in all species studied, highly expressed in connective tissue, various fibroblast and stromal cell lines and lastly, by tumor endothelial cell lines. In the mouse, it is expressed on all thymocytes and peripheral T lymphocytes.
Uniprot ID:	P01831
NCBI:	NP_033408.1
GeneID:	21838
Host / Isotype:	Mouse / IgG3
Clone:	1aG4/C5
Immunogen:	Thymocytes from C3H/Di mice (allelic form: Thy-1.2 positive)
Format:	State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE). Purification: Affinity Chromatography on Protein-A. Buffer System: Azide free PBS, pH~7.4 containing 0.3M NaCl and sterilized by filtration.
Applications:	Flow Cytometry: 1 µg/ml Western Blotting. Functional Assay: The bound of antibody 1aG4/C5 to the transfected mast cells induces the activation processes which are similar, but not identical, to the antigen activation of IgE stimulated cells. Other studies approve that the antibody 1aG4/C5 precipitates complexes with Lyn protein tyrosine kinase. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody 1aG4/C5 recognizes alloantigen Thy-1.2 of Mouse Thy-1 (CD90). It does not cross-react with Thy-1.1 alloantigen. Thy-1 is a 18 kDa cell surface GPI linked glycoprotein (Immunoglobulin superfamily); in the mouse it is expressed on all thymocytes and peripheral T lymphocytes. Species: Mouse. Other species not tested.
Storage:	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.

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

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
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- General References:**
1. Draber P, Zikan J, Vogtiskova M.: Establishment and characterization of permanent murine hybridomas secreting monoclonal anti-thy-1 antibodies. *J Immunogenet.* 1980 Dec;7(6):455-74.
 2. Zikan J, Draber P, Vojtiskova M.: Monoclonal IgG3 (kappa) antibodies against murine Thy-1.2 antigen produced by murine hybridomas. Differences in the specificity of the antigen binding site and in the structure of the hinge region. *Folia Biol (Praha).* 1982;28(6):377-94.
 3. Draberova L, Draber P.: Thy-1 glycoprotein and src-like protein-tyrosine kinase p53/p56lyn are associated in large detergent-resistant complexes in rat basophilic leukemia cells. *Proc Natl Acad Sci U S A.* 1993 Apr 15;90(8):3611-5.
 4. Heneberg P, Lebduska P, Draberova L, Korb J, Draber P.: Topography of plasma membrane microdomains and its consequences for mast cell signaling. *Eur J Immunol.* 2006 Oct;36(10):2795-806.

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