

10-443-C100

## Monoclonal Antibody to CD90.2 / Thy-1.2 (mouse) Azide Free (0.1 mg)

<b>Clone:</b>	1aG4/C5
<b>Isotype:</b>	Mouse IgG3
<b>Specificity:</b>	The antibody 1aG4/C5 recognizes alloantigen Thy-1.2 of mouse Thy-1 (CD90); <b>it does not cross-react with Thy-1.1 alloantigen</b> . 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.
<b>Immunogen:</b>	thymocytes from C3H/Di mice (alelic form: Thy-1.2 positive)
<b>Species Reactivity:</b>	Mouse
<b>Negative Species:</b>	Human, Rat
<b>Application:</b>	<b>Flow Cytometry</b> <i>Recommended dilution:</i> 1 µg/ml <b>Western Blotting</b> <b>Functional Application</b> 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.
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified from hybridoma culture supernatant by protein-A affinity chromatography.
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Azide free phosphate buffered saline (PBS), containing 0.3M NaCl and sterilized by filtration, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	<b>Thy-1</b> (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.

**For laboratory research only, not for drug, diagnostic or other use.**



**Antibodies**

**References:**

\*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.

\*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.

\*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.

\*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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