EXBIO Antibodies

PRODUCT DATA SHEET

10-443-C100

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

Clone:	1aG4/C5
Isotype:	Mouse IgG3
Specificity:	The mouse monoclonal 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 an 18-35 kDa cell surface GPI linked glycoprotein (immunoglobulin superfamily); in mouse it is abundant on thymocytes and peripheral T lymphocytes.
Immunogen:	thymocytes from C3H/Di mice (Thy-1.2 positive)
Species Reactivity:	Mouse
Negative Species:	Human, Rat
Application:	Flow Cytometry Recommended dilution: 1 µg/ml Western Blotting Immunocytochemistry Functional Application 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.
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified from hybridoma culture supernatant by protein-A affinity chromatography.
Concentration:	1 mg/ml
Storage Buffer:	Azide free HEPES buffer, approx. pH 7
Storage / Stability:	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.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD90 (Thy-1) is an 18-35 kDa GPI-anchored plasma membrane glycoprotein expressed in many cell types, such as in hematopoietic cells and neurons, connective tissues, various fibroblast and stromal cell lines, tumor endothelial cell lines and other. In the mouse, CD90 is expressed mainly on thymocytes and peripheral T lymphocytes. It is involved in T cell activation, cellular adhesion, proliferation and migration, neurite outgrowth, wound healing, apoptosis, and fibrosis. CD90 participates in multiple signaling cascades and its effects are tissue- and cell type-specific. It often functions as an important regulator of cell-cell and cell-matrix interactions.

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

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