

## ARG62949 anti-CD90.2 / Thy 1.2 antibody [1aG4/C5] (Functional Grade)

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Functional Grade Mouse Monoclonal antibody [1aG4/C5] recognizes CD90.2 / Thy 1.2
Tested Reactivity	Ms
Species Does Not React With	Hu, Rat
Tested Application	FACS, FuncSt, ICC/IF, WB
Specificity	The clone 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.
Host	Mouse
Clonality	Monoclonal
Clone	1aG4/C5
Isotype	IgG3
Target Name	CD90.2 / Thy 1.2
Immunogen	Thymocytes from C3H/Di mice (CD90.2 / Thy 1.2 positive).
Conjugation	Un-conjugated
Alternate Names	Thy-1 membrane glycoprotein; Thy-1 antigen; CD antigen CD90; CDw90; CD90

### Application Instructions

Application table	Application	Dilution
	FACS	1 µg/ml
	FuncSt	Assay-dependent
	ICC/IF	Assay-dependent
	WB	Assay-dependent
Application Note	Functional studies: The bound of clone 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 clone 1aG4/C5 precipitates complexes with Lyn protein tyrosine kinase. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purification with Protein A.
Purification Note	Preserved by filter sterilization.
Purity	> 95% (by SDS-PAGE)

Buffer	PBS (pH 7.4)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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Database links	<a href="#">GeneID: 21838 Mouse</a> <a href="#">Swiss-port # P01831 Mouse</a>
Gene Symbol	Thy1
Gene Full Name	thymus cell antigen 1, theta
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.
Function	May play a role in cell-cell or cell-ligand interactions during synaptogenesis and other events in the brain. [UniProt]
Research Area	Developmental Biology antibody; Immune System antibody; Neuroscience antibody
Calculated Mw	18 kDa