



Datasheet for ABIN2749141

anti-CD90.2 / Thy-1.2 antibody (PE)



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Overview

Quantity:	0.1 mg
Target:	CD90.2 / Thy-1.2
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD90.2 / Thy-1.2 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	thymocytes from C3H/Di mice (Thy-1.2 positive)
Clone:	1aG4-C5
Isotype:	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 anchored glycoprotein (immunoglobulin superfamily), in mouse it is abundant on thymocytes and peripheral T lymphocytes.
No Cross-Reactivity:	Human, Rat
Cross-Reactivity (Details):	Mouse
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD90.2 / Thy-1.2
Abstract:	CD90.2 / Thy-1.2 Products
Background:	<p>Thy-1.2 cell surface antigen,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.,Thy-1.2</p>
Gene ID:	21838
UniProt:	P01831

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-2 µg/mL.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Concentration:	0.1 mg/mL
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:	Bradley, Ramirez, Hagood: "Roles and regulation of Thy-1, a context-dependent modulator of
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cell phenotype." in: **BioFactors (Oxford, England)**, Vol. 35, Issue 3, pp. 258-65, (2009) ([PubMed](#)).

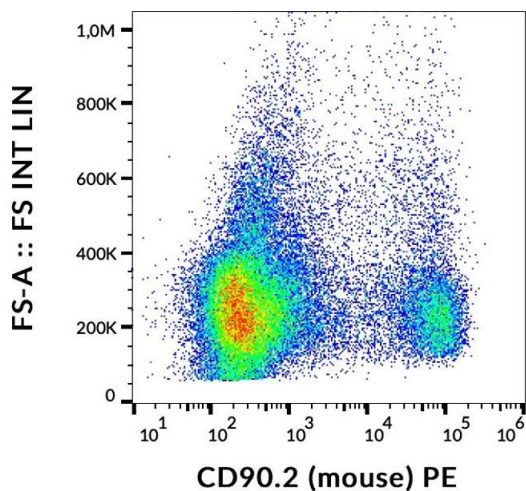
Heneberg, Lebduska, Dráberová, Korb, Dráber: "Topography of plasma membrane microdomains and its consequences for mast cell signaling." in: **European journal of immunology**, Vol. 36, Issue 10, pp. 2795-806, (2006) ([PubMed](#)).

Dráberová, Dráber: "Thy-1 glycoprotein and src-like protein-tyrosine kinase p53/p56lyn are associated in large detergent-resistant complexes in rat basophilic leukemia cells." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 90, Issue 8, pp. 3611-5, (1993) ([PubMed](#)).

Zikán, Dráber, Vojtísková: "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." in: **Folia biologica**, Vol. 28, Issue 6, pp. 377-94, (1983) ([PubMed](#)).

Dráber, Zikán, Vogtísková: "Establishment and characterization of permanent murine hybridomas secreting monoclonal anti-thy-1 antibodies." in: **Journal of immunogenetics**, Vol. 7, Issue 6, pp. 455-74, (1981) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of murine splenocytes using anti-CD90.2 (1aG4/C5) PE.