

TECHNICAL DATA SHEET

CyFlow™ CD90.2 PE Anti-Ms; Clone 1aG4/C5

REF CN347786

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD90.2
Alternative Names	—
Clone	1aG4/C5
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG3
Species Reactivity	Mouse
Negative Species Reactivity	Human Rat
Quantity [Concentration]	0.1 mg [0.1 mg/ml]
Immunogen	Thymocytes from C3H/Di mice (Thy-1.2 positive)

Specificity

The mouse monoclonal antibody 1aG4/C5 recognizes alloantigen Thy-1.2 of mouse CD90 (Thy-1); it does not cross-react with Thy-1.1 alloantigen. CD90 is a 18-35 kDa cell surface GPI linked glycoprotein (immunoglobulin superfamily); in mouse it is abundant on thymocytes and peripheral T lymphocytes.

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

Application

The reagent is designed for Flow Cytometry analysis. Working concentrations should be determined by the investigator.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH \approx 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

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.

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. < PMID: 6787139 >
- 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. < PMID: 6186535 >
- Draberoval L, Draber P: Thy-1 glycoprotein and src-like protein-tyrosine kinase p53/p56lyn are associated in large detergent-resistant complexes in rat basophilic leukemic cells. Proc Natl Acad Sci USA. 1993 Apr 15; 90(8):3611-5. < PMID: 7682713 >

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

- Haeryfar SM, Hoskin DW: Thy-1: more than a mouse pan-T cell marker. J Immunol. 2004 Sep 15; 173(6):3581-8. < PMID: 15356100 >
- Rege TA, Hagood JS: Thy-1 as a regulator of cell-cell and cell-matrix interactions in axon regeneration, apoptosis, adhesion, migration, cancer, and fibrosis. FASEB J. 2006 Jun; 20(8):1045-54. < PMID: 16770003 >
- 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. < PMID: 17013982 >
- Rege TA, Hagood JS: Thy-1, a versatile modulator of signaling affecting cellular adhesion, proliferation, survival, and cytokine/growth factor responses. Biochim Biophys Acta. 2006 Oct; 1763(10):991-9. < PMID: 16996153 >
- Bradley JE, Ramirez G, Hagood JS: Roles and regulation of Thy-1, a context-dependent modulator of cell phenotype. Biofactors. 2009 May-Jun; 35(3):258-65. < PMID: 19422052 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com