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ProSci Incorporated
12170 Flint Place
Poway, CA 92064

Toll Free: +1 (888) 513 9525
Local: +1 (858) 513 2638
Fax: +1 (858) 513 2692

techsupport@prosci-inc.com

CD90.2 Antibody [30-H12] (Violet-450)

CATALOG NUMBER: 76-071

Specifications

SPECIES REACTIVITY:	Mouse
TESTED APPLICATIONS:	FACS
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	The 30-H12 monoclonal antibody specifically binds to MouseCD90.2, an alloantigen known as Thy-1.
HOST SPECIES:	Rat

Properties

PURIFICATION:	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
PHYSICAL STATE:	liquid
BUFFER:	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.
CONCENTRATION:	0.2 mg/mL
STORAGE CONDITIONS:	The product should be stored undiluted at 4˚C and should be protected from prolonged exposure to light. Do not freeze.
CLONALITY:	Monoclonal
ISOTYPE:	Rat IgG2b
CONJUGATE:	Violet-450

Additional Info

ALTERNATE NAMES:	T25, CD90, Thy-1, Thy1.1, Thy1.2, Thy-1.2, Thy1
OFFICIAL SYMBOL:	Thy1
GENE ID:	21838

Background

BACKGROUND:	The 30-H12 monoclonal antibody specifically binds to MouseCD90.2, an alloantigen known as Thy-1.2, expressed on thymocytes, mature T cells, epithelial cells, neurons, hematopoietic stem cells, and fibroblasts. CD90 is a membrane glycoprotein that regulates the adhesion and signal transduction in T lymphocytes, and the adhesion of thymocytes to thymic stroma. The interaction between 30-H12 and the antibody to the CD3/TCR complex upregulates thymocytes signal transduction and apoptosis and downregulates mature T cell proliferation. The 30-H12 antibody seems to be unable to cross-link with CD90.1.BG Violet 450 conjugate is an alternative to the Pacific Blue, eFluor 450, or BD Horizon V450 dyes. It is excited by the violet (405 nm) laser, with a peak emission of 450nm.
REFERENCES:	1) Ledbetter, J. A., Herzenberg, L. A. (1979). Xenogeneic Monoclonal Antibodies to Mouse Lymphoid Differentiation Antigens*.Immunological reviews,47(1), 63-90.
	2) Radrizzani, M., Carminatti, H., Pivetta, O. H., Vargas, V. P. (1995). Developmental regulation of Thy 1.2 rate of synthesis in the mouse cerebellum.Journal of neuroscience research,42(2), 220-227.
	3) Seaman, W. E., Wofsy, D., Greenspan, J. S., Ledbetter, J. A. (1983). Treatment of autoimmune MRL/lpr mice with monoclonal antibody to Thy-1.2: a single injection has sustained effects on lymphoproliferation and renal

disease.The Journal of Immunology,130(4), 1713-1718.