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Diagnostik & molekulare Diagnostik



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Technically
Speaking

CEDARLANE[®]
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Conveniently Delivering You Today's Innovations
for the Science of Tomorrow™

**Anti-Mouse Sca-1 (Ly-6A.2/6E.1)
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL8934AP	Purified	250µg	1.0 mg/ml	CLCR2B00
CL8934PE/-3	PE	50µg/300µg	0.1 mg/ml	CLCR2B04

Isotype: Rat IgG_{2b}

DESCRIPTION:

Cedarlane's monoclonal antibody recognizes Sca-1 (Ly-6A.2/6E.1), a cell surface antigen used in the identification of hematopoietic stem cells. It is a member of the Ly-6 antigen family. The Thy-1^{lo}, Lin⁻ (lineage-negative, not expressing B220, Gr-1, Mac-1, CD4 or CD8), Sca-1⁺ population of bone marrow cells are highly purified, perhaps homogenous, pluripotent stem cells. This antigen is also present on various other tissues. Specific staining of the parenchymal cells can be demonstrated in thymus, spleen and kidney whereas only vasculature reacts with anti-Sca-1 in brain, heart and liver (and possibly in lung). Also, Sca-1 is a T cell activation antigen, as surface expression of the antigen increases upon Con A activation of T lymphocytes. Sca-1 appears to have a molecular mass of 8 kDa under non-reducing conditions and 18 kDa under reducing conditions, indicating the presence of intra-chain disulfide bonds.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

PE: PE conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE PE conjugates. For long term storage (**Purified**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

SPECIFICATIONS:

Clone: CT-6A/6E

Specificity: Mouse Sca-1 (Ly-6A.2/6E.1)

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TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: Balb/C

Cell Concentration: 1×10^6 cells per test

Antibody Concentration Used: $1.0 \mu\text{g}/10^6$ cells

Cell population

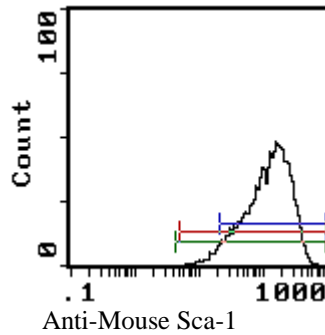
Con A Activated Splenocytes

Bone Marrow

Percentage of cells stained above control:

95.6%

21.7%



Cell Source: Con A Activated Splenocytes

N.B. Appropriate control samples should always be included in any labeling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

REFERENCES:

1. Spangrude, G.J. et al. 1991 Purification and characterization of mouse hematopoietic stem cells, Science 241:58-62.
2. Alhara, Y., Buhning, H.J., Alhara, M, et al. 1986 An attempt to produce "pre-T" cell hybridomas and to identify their antigens, Eur.J.Immunol, 16:1391-1399.
3. Van de Rijn, M., Heimfeld, S., Spangrude. et al. 1989 Mouse hematopoietic stem cell antigen Sca-1 is a member of the Ly-6 antigen family. Proc. Natl. Acad. Sci. USA 86:4634-4638.
4. Codias, E.K., Cray, D., Baler, R.D. et al. 1989 Expression of Ly-6A/E alloantigens in thymocyte and T lymphocyte subsets: variability related to the Ly-6a and Ly-6b haplotypes. Immunogenetics 29:98-107.
5. Tomonari, K. 1988 A rat antibody against a structure functionally related to the mouse T-cell receptor/T3 Complex. Immunogenetics 28: 455-458.

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