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Technically
Speaking

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

**Anti-Mouse CD27
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL8963AP	Purified	250ug	1.0 mg/ml	CLCHM00
CL8963B	Biotin	100ug	0.1 mg/ml	CLCHM15
CL8963F	FITC	100ug	0.1 mg/ml	CLCHM01
CL8963PE	PE	50ug	0.1 mg/ml	CLCHM04
CL8963NA	Purified/No Azide	1mg	1.0 mg/ml	CLCHM00

Isotype: Armenian hamster IgG1

DESCRIPTION:

Cedarlane's anti-mouse CD27 Monoclonal Antibody is specific for the mouse CD27 receptor. CD27 is part of the Tumor Necrosis Factor (TNF) family of receptors and is lymphocyte specific. Murine CD27 is expressed on the great majority of both $\alpha\beta$ and $\gamma\delta$ T lymphocytes, on a small population of peripheral B cells and on a very small subset of B220⁺ cells in the bone marrow. Murine CD27 is found on all thymocytes except a subset of CD4⁺CD8⁻ precursors.

There are two known basic functions of CD27 signaling. First, the binding of CD27 to CD70, a protein which is also expressed in T and B cells, provides costimulatory signals in lymphocyte proliferation and immunoglobulin production. Second, the association of CD27 with intracellular Siva, a proapoptotic protein, results in the induction of apoptotic events.

This clone (LG.3A10) has been reported to work in Immunohistochemistry on frozen tissue sections, Flow Cytometry and in functional studies (stimulating).

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography).

Biotin, FITC and PE: Biotin/FITC/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.

No Azide: Purified Ig buffered in PBS, no preservative, 0.2 μ m sterile filtered.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE PE conjugates. For long term storage (**Purified, Biotin, FITC, No Azide**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

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SPECIFICATIONS:

Clone: LG.3A10

Hybridoma Production:

Immunization:

Immunogen: MCD27 tag expressing clones AR0524 and AR0530
Donor: Armenian hamster spleen

Fusion Partner: SP2/0 Murine Myeloma Partner

Specificity: Mouse CD27 Receptor

Isotype: Armenian hamster IgG1

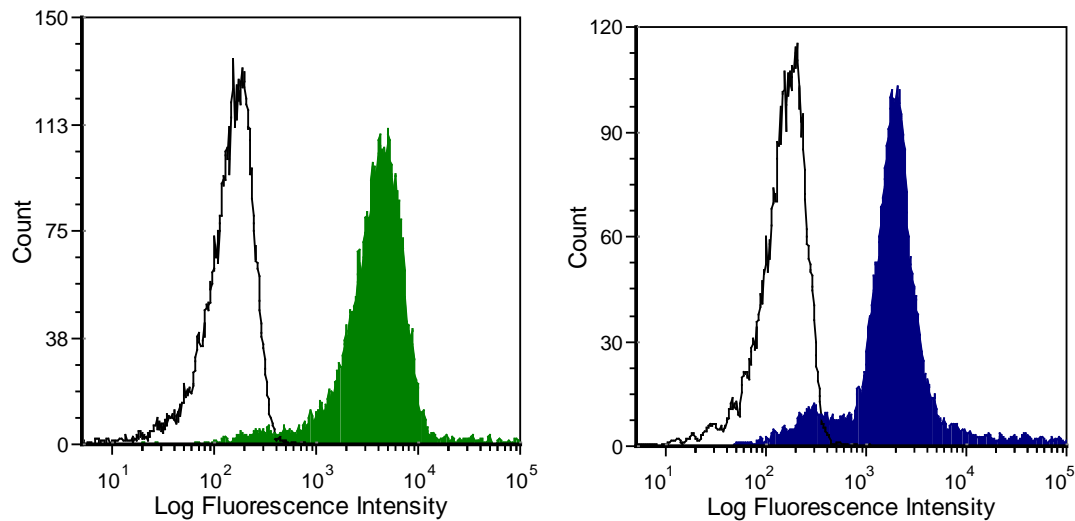
TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: BALB/c

Cell Concentration: 1×10^6 cells per tests

Antibody Concentration Used: $0.5 \mu\text{g}/10^6$ cells



C3H/HE mouse thymocytes (left) and lymph nodes (right) were stained with anti-CD27 (clone: LG.3A10) (filled histogram) or Armenian hamster IgG isotype control (open histogram).

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. Gravestein L.A. et al. 1995. Novel mAbs reveal potent co-stimulatory activity of murine CD27. *International Immunology*, December 9, 7(4):551-557.
2. Henke A. et al. 2000. Apoptosis in Coxsackievirus B3-Caused Diseases: Interaction between the Capsid Protein VP2 and the Proapoptotic Protein Siva. *Journal of Virology*, May, 74(9):4284-4290.

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