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- Trockeneiszuschlag
- Gefahrgutzuschlag
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Anti-Rat Crry Monoclonal Antibody

Catalogue#	Format	Size	Concentration	Isotype Control
CL064AP	Purified	250ug	1.0 mg/ml	CLCMG100
CL064B	Biotin	100ug	0.1 mg/ml	CLCMG115
CL064F	FITC	100ug	0.1 mg/ml	CLCMG101

Isotype: Mouse IgG1

DESCRIPTION:

Cedarlane's anti-Rat Crry monoclonal antibody (Clone: 5I2) is a rat-specific membrane complement regulator that can inhibit both antibody-induced classical pathway and alternative pathway complement activation. Crry plays a more dominant role than DAF in regulating the alternative pathway of complement and in preventing spontaneous complement damage of rat erythrocytes, whereas DAF and Crry are both expressed and are equally effective in preventing antibody-induced runaway complement activation on rat erythrocytes.

This antibody is suitable for use in flow cytometry[6] and immunohistochemistry (acetone-fixed frozen sections).[3,4,5,6]

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.
Biotin and FITC: Biotin/FITC 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:

Store at 4°C. For long term storage, aliquot and freeze unused portion at-20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

SPECIFICATIONS:

Clone: 5I2

Immunogen: Erythrocytes from a C3 mutated rat

Specificity: Rat Crry

Ig Class: Mouse IgG1

In CANADA: Toll Free: 1-800-268-5058
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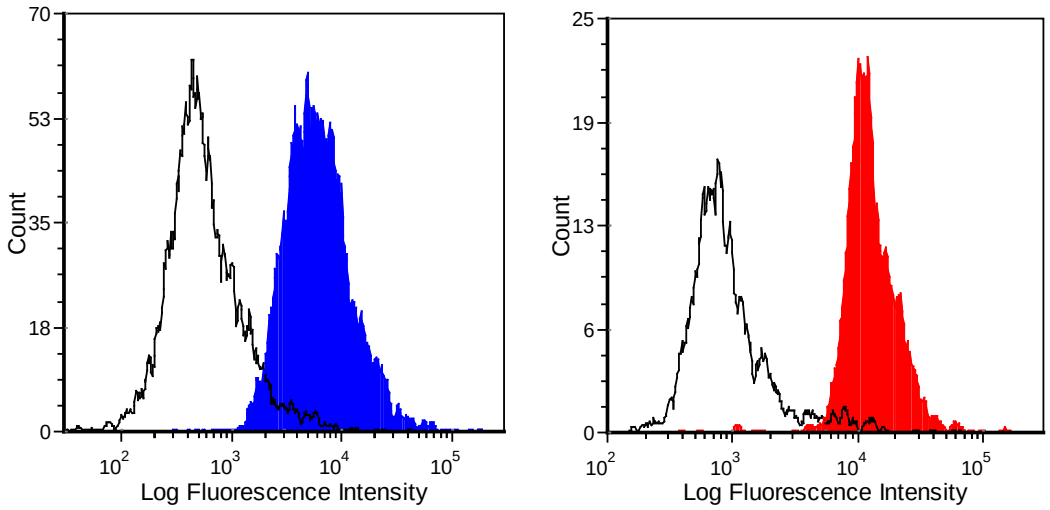
TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Rat Strain: Wister
Cell concentration: $1x10^6$ cells per test
Antibody Concentration Used: 0.1µg/106 cells

Cell Source	Percentage of cells stained above control
Bone Marrow	99.6%
Blood	55.9 %
Spleen	59.6%



Wistar rat splenocytes (left) and bone marrow (right) were stained with anti-Crry (clone: 5I2) (filled histogram) or mouse IgG2a 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. Molina, H., Miwa, *et al*. 2002. Complement-mediated clearance of erythrocytes: mechanism and delineation of the regulatory roles of Crry and DAF. The American Society of Hematology
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3. Nishikawa, K., *et al*. 1996. Local inflammation caused by a monoclonal antibody that blocks the function of the rat membrane inhibitor of C3 convertase. *The Journal of Immunology*. **156**: 1182-1188.
4. Nomura, A., *et al*. 1995. Tubulointerstitial injury induced in rats by a monoclonal antibody that inhibits function of a membrane inhibitor of complement. *J. Clin. Invest*. Vol. 96. 2348-2356.
5. Matsuo, S., *et al*. 1994. In vivo effects of monoclonal antibodies that functionally inhibit complement regulatory proteins in rats. *J. Exp. Med*. Vol. 180. 1619-1627.
6. Nishikage, H., *et al*. 1995. The role of a complement regulatory protein in rat mesangial glomerulonephritis. *J. Am. Soc. Nephrol*. **6**: 234-242.

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