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Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Mouse Complement Component C4 Monoclonal Antibody

Catalogue#	Format	Size	Concentration	Isotype Control
CL7504AP	Purified	250 µg	1.0 mg/ml	CLCR2A00
CL7504AP-2	Purified	500 µg	1.0 mg/ml	CLCR2A00
CL7504B	Biotin	100 µg	0.1 mg/ml	CLCR2A15
CL7504F	FITC	100 µg	0.1 mg/ml	CLCR2A01
CL7504NA	No Azide	1 mg	1.0 mg/ml	CLCR2A00

Isotype: Rat IgG_{2a}

DESCRIPTION:

Cedarlane's Anti-Mouse Complement Component C4 monoclonal antibody reacts with mouse C4 (and also with C4b and C4d). The C4 component is a glycoprotein containing three polypeptide chains (α, β and γ). C4 along with C1, C2 and C3 are all involved in the initial stages of complement activation via the classical pathway. Upon binding of the C1 molecule to the antibody coated target, C4 is activated when C1s hydrolyzes a small fragment, C4a, from the amino terminus, exposing a binding site on the larger fragment, C4b. The C4b fragment attaches to the target surface and the C2a complement component attaches to the exposed binding site. The resulting C4b2a complex is called C3 convertase, which converts the C3 proenzyme into its active form. The C4a molecule is a peptide mediator of inflammation (anaphylatoxin).

Reported applications of this antibody include immunofluorescence including flow cytometry, ELISA, Western blot and immunohistochemistry on acetone fixed frozen sections. The FITC format is best suited for immunofluorescence including flow cytometry.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN_3. (Purified from ascitic fluid via Protein G Chromatography).
Biotin and FITC: 100 µg Biotin/FITC conjugated Ig buffered in PBS, 0.02% NaN_3 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, 0.2µm sterile filtered.

STORAGE/STABILITY:

For all formats, store at 4°C. For long term storage, aliquot and freeze unused portions at -20°C in volumes appropriate for single usage. Avoid repeated freeze/thaw cycles.

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SPECIFICATIONS:

Clone: RmC16D2

Hybridoma Production:

Immunization:

Immunogen: C57BL/6 thymocytes incubated with a rat IgG2b anti-murine Thy-1 (RmT1) and C57BL/6 serum (as a source for Complement Component C4)

Donor: Lou/c rat spleen cells

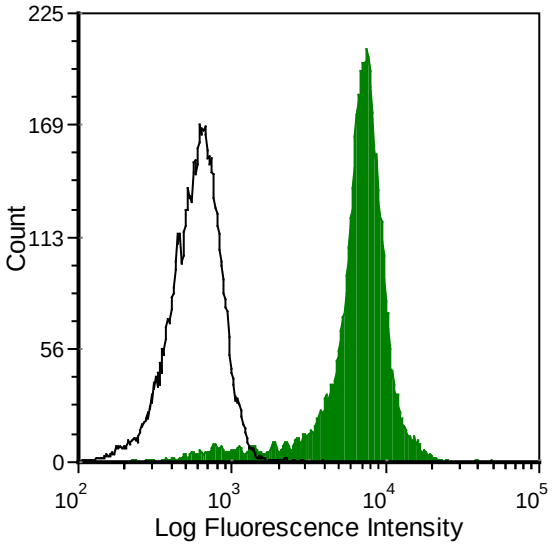
Fusion Partner: Mouse myeloma cell line P3X63 Ag. 8.653

Specificity: Mouse Complement Component C4

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: C57BL/6
Cell Concentration: $1x10^6$ cells per test
Concentration of Antibody Used: 0.5 µg/10^6 cells



C57BL/6 mouse thymocytes incubated with anti-mouse CD90 (Thy 1.2) (clone: 5a-8) and fresh mouse serum were stained with anti-mouse C4 (Clone: RmC16D2) (filled histogram) or rat IgG2a isotype control (open histogram).

REFERENCES:

1. Kremmer, E, Thierfelder S, Felber E, Hoffmann-Fezer, G, and Wasiliu, M. 1990. Monoclonal antibodies to complement componenets without the need of their prior purification. II. Antibodies to mouse C3 and C4. Hybridoma. Aug; 9 (4):309-17.

FOR RESEARCH USE ONLY

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