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Purified Anti-Mouse/Human MAC-2 (Galectin-3) Monoclonal Antibody

Catalogue#	Format	Size	Concentration	Isotype Control
CL8942AP	Purified	100 µg	1.0 mg/ml	CLCR2A00
CL8942LE	Low Endotoxin	500 µg	1.0 mg/ml	CLCR2A00
CL8942B/-3	Biotin	100 µg/300 µg	0.1 mg/ml	CLCR2A15
CL8942F/-3	FITC	100 µg/300 µg	0.1 mg/ml	CLCR2A01
CL8942AF4	Alexa Fluor®488	100 µg	0.1 mg/ml	N/A
CL8942AF6	Alexa Fluor®647	100 µg	0.1 mg/ml	N/A
CL8942AF7	Alexa Fluor®700	100 µg	0.1 mg/ml	N/A

Alexa Fluor® is a registered trademark of Life Technologies Corporation.

Isotype: Rat IgG_{2a}

DESCRIPTION:

Cedarlane's anti-Mac-2 monoclonal antibody specifically binds the mouse Mac-2 antigen (also cross reacts with human). The antibody recognizes a 32,000 dalton surface antigen found on a subpopulation of mouse macrophages. It reacts with peritoneal exudate macrophages where the exudate is provoked by thioglycollate, protease peptone (20%), macrophages of lymphoid and non-lymphoid tissues, interdigitating dendritic cells and Langerhans cells. Mac-2 is also expressed in the cytoplasm on non-elicited resident macrophages; 5% are strongly reactive, the remaining 95% show much weaker staining.

The antibody does not react with peritoneal exudate macrophages where the exudate is provoked by *Listeria monocytogenes*, lipopolysaccharide or concanavalin A. It also does not react with peritoneal macrophages, splenic macrophages, granulocytes, thymocytes, peripheral lymph node cells and with 99% of bone marrow cells.

CL8942 antibody can be used for indirect immunofluorescence staining, including flow cytometric analysis of live cells. The addition of propidium iodide is optional; its use eliminates staining artifacts caused by dead cells (1). This antibody is also suitable for frozen sections (4,5) and paraffin sections (7) (recommended starting dilutions of 1:1000-1:2000); ELISA (6); and Western Blot.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN_3. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

Low Endotoxin: Purified Ig buffered in PBS with no preservative (Purified from culture supernatant via Protein G Chromatography), 0.2µm sterile filtered.

Biotin, FITC, AF488, AF647 and AF700: Biotin/FITC/AF488/AF647/AF700 conjugated IgG 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.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE **AF488, AF647 and AF700** conjugates. For long term storage (**Purified, LE, Biotin and FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

In CANADA: Toll Free: 1-800-268-5058
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SPECIFICATIONS:

Clone: M3/38

Hybridoma Production:

Immunization: Immunogen: Plasma membrane glycoproteins from C57BL/6 mouse thioglycollate-elicited peritoneal exudate.
Donor: (Lewis x BN) F_1 rat spleen

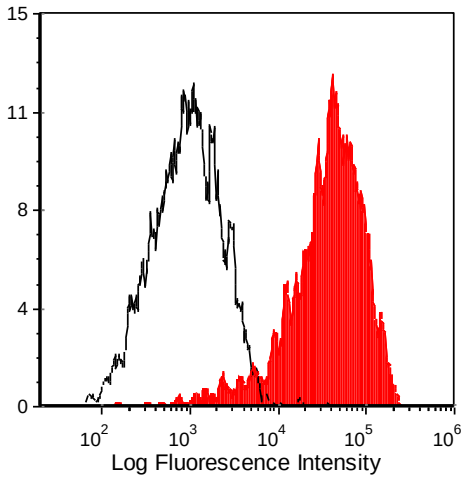
Fusion Partner: NS-1

Specificity: Mouse and Human MAC-2 (Galectin-3)

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:
Mouse Strain: BALB/c
Cell Concentration: $1x10^6$ cells per tests
Antibody Concentration Used: 0.5 µg/10^6 cells

Cell Source	Percentage of cells stained above control:
Thymus	2.41%
Thioglycollate-elicited peritoneal exudate	85.8%



Thioglycolate-elicited C57BL/6 mouse peritoneal macrophages were stained with anti-Galectin-3 (clone: M3/38) (filled histogram) or rat 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.**

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