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CEDARLANE[®]
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for the Science of Tomorrow™

**Anti-Rat CD11b/c
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL042A	Ascites	0.5ml	NA	CLCMG2A00
CL042AP	Purified	250µg	1.0 mg/ml	CLCMG2A00
CL042AP-2	Purified	500µg	1.0 mg/ml	CLCMG2A00
CL042B	Biotin	100µg	0.1 mg/ml	CLCMG2A15
CL042B-5	Biotin	500µg	0.1 mg/ml	CLCMG2A15
CL042F	FITC	100µg	0.1 mg/ml	CLCMG2A01
CL042F-5	FITC	500µg	0.1 mg/ml	CLCMG2A01
CL042APC	APC	100µg	0.1 mg/ml	CLCMG2A05
CL042PE	PE	50µg	0.1 mg/ml	CLCMG2A04
CL042PE-4	PE	200µg	0.1 mg/ml	CLCMG2A04
CL042AF4	Alexa Fluor [®] 488	100 µg	0.1 mg/ml	N/A
CL042AF6	Alexa Fluor [®] 647	100 µg	0.1 mg/ml	N/A
CL042AF7	Alexa Fluor [®] 700	100 µg	0.1 mg/ml	N/A

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

Isotype: Mouse IgG2a

DESCRIPTION:

Cedarlane's anti-rat CD11b/c monoclonal antibody recognizes most macrophages including resident peritoneal macrophages, kupffer cells, but only approximately 35% of alveolar macrophages (2). It also labels dendritic cells extensively, granulocytes and cells with morphology of microglia in the brain. It precipitates three polypeptides of M.W. 160, 103 and 95kDa. CL042 inhibits complement mediated rosettes and is probably the rat equivalent of the human receptor for iC3b called CR3. Cedarlane's anti-rat CD11b/c mAb should prove useful in the recognition of macrophages and microglia.

This clone is reported to work with frozen and paraffin sections (3); *in vivo* and *in vitro* functional tests (4, 5, 6); and cryostat sections (5).

PRESENTATION:

Ascites: Lyophilized

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.

APC, Biotin, FITC, PE, AF488, AF647 and AF700: Biotin/FITC/PE/AF488/AF647/AF700 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.

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STORAGE/STABILITY:

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

SPECIFICATIONS:

Clone: MRC OX-42

Hybridoma Production:

Immunization: Immunogen: Rat Peritoneal Macrophages
Donor: BALB/c spleen
Fusion Partner: NSO/U mouse myeloma cell line

Specificity: Rat CD11b/c

Strains Tested: Wistar, Buffalo, Brown Norway, Fischer 344
Positive: Wistar, Buffalo, Brown Norway, Fischer 344
Negative: None

TEST RESULTS:

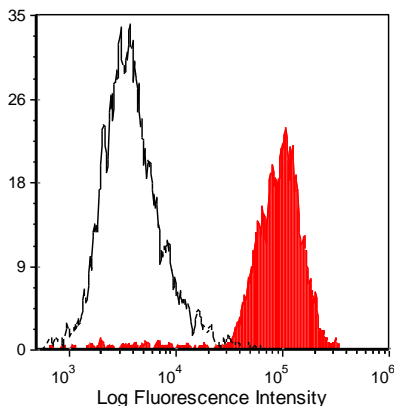
Tissue Distribution by Flow Cytometry Analysis:

Rat Strain: Wistar

Cell Concentration: 1x10⁶ cells per test

Antibody Concentration Used: 0.1 µg/10⁶ cells

<u>Cell Source</u>	<u>Percentage of cells stained above control:</u>
Peritoneal Macrophages	96.6%
Thymus	1.1%



Wistar rat peritoneal macrophages were stained with anti-CD11b/c (clone: OX-42) (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.

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