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Technically
Speaking

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

**Anti-Rat CD45
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL001A	Purified	0.5 ml	NA	CLCMG2A00
CL001AP/-2	Purified	250 µg/500 µg	1.0 mg/ml	CLCMG2A00
CL001NA	Purified	1.0 ml	1.0 mg/ml	CLCMG2A00
CL001B/-5	Biotin	100 µg/500 µg	0.1 mg/ml	CLCMG2A15
CL001F/-5	FITC	100 µg/500 µg	0.1 mg/ml	CLCMG2A01
CL001PE/-4	PE	50 µg/200 µg	0.1 mg/ml	CLCMG2A04

Isotype: Mouse IgG2a

DESCRIPTION:

Cedarlane's anti-rat CD45 monoclonal antibody recognizes a monomorphic determinant of the rat leukocyte common antigen. (1) The antigen recognized is a heavily glycosylated membrane glycoprotein of molecular weight 170,000 Da on thymocytes but molecular weight 170,000-220,000 Da on other leukocytes. The leukocyte common antigen (L-CA) is a major glycoprotein of haematopoietic cells but is not found on other tissues or erythroid cells. It is present on greater than 95% of thymocytes, bone marrow cells and thoracic duct lymphocytes. This molecule carries much of the carbohydrate of thymocytes and shows interesting heterogeneity amongst T lymphocytes and B lymphocytes. (2, 3)

This antibody is suitable for use in flow cytometry and immunohistochemistry with frozen sections. This clone has also been reported to be unsuitable for use with paraffin sections.

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.

No Azide: Purified IgG buffered in PBS, 0.22 µm filtered with no preservative. (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.

STORAGE/STABILITY:

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

Continued Overleaf.....

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registered company.

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SPECIFICATIONS:

Clone: MRC OX-30

Hybridoma Production:

Immunization: Immunogen: Lymph Node glycoproteins and cells
Donor: BALB/c Spleen

Fusion Partner: NSO/U

Specificity: Rat CD45

TEST RESULTS:

Rat Strain: Wistar

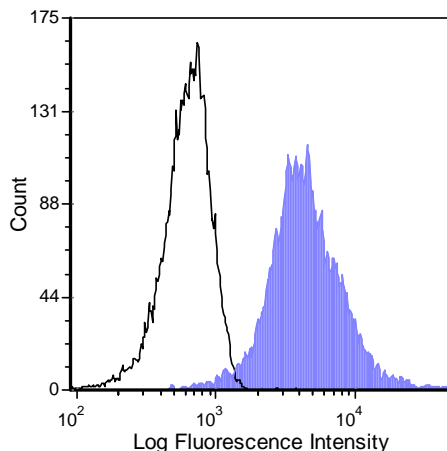
Cell concentration: 1x10⁶ cells per test

Antibody concentration used: 0.5 µg/10⁶ cells

Cell Source

Percentage of cells stained above control:

Thymus	99.2%
Spleen	99.2%
Lymph Node	99.8%



Wistar rat thymocytes were stained with anti-CD45 (clone: OX-30) (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:

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