Anti-Rat CD45
Monoclonal Antibody

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

**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...*
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: 1x10^6 cells per test
Antibody concentration used: 0.5 µg/10^6 cells

<table>
<thead>
<tr>
<th>Cell Source</th>
<th>Percentage of cells stained above control:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thymus</td>
<td>99.2%</td>
</tr>
<tr>
<td>Spleen</td>
<td>99.2%</td>
</tr>
<tr>
<td>Lymph Node</td>
<td>99.8%</td>
</tr>
</tbody>
</table>

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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