Anti-Rat CD152 (CTLA-4) 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>CL090AP</td>
<td>Purified</td>
<td>250µg</td>
<td>1.0 mg/ml</td>
<td>CLCMG100</td>
</tr>
<tr>
<td>CL090LE</td>
<td>Low Endotoxin</td>
<td>500µg</td>
<td>1.0 mg/ml</td>
<td>CLCMG100</td>
</tr>
<tr>
<td>CL090B/-5</td>
<td>Biotin</td>
<td>100µg/500µg</td>
<td>0.1 mg/ml</td>
<td>CLCMG115</td>
</tr>
<tr>
<td>CL090F/-5</td>
<td>FITC</td>
<td>100µg/500µg</td>
<td>0.1 mg/ml</td>
<td>CLCMG101</td>
</tr>
<tr>
<td>CL090PE/-4</td>
<td>PE</td>
<td>50µg/200µg</td>
<td>0.1 mg/ml</td>
<td>CLCMG104</td>
</tr>
</tbody>
</table>

Isotype: Mouse IgG1

DESCRIPTION:

Cedarlane's anti-rat CD152 monoclonal antibody is specific for the cytotoxic T lymphocyte-associated protein 4 (CTLA-4), also called CD152. This antigen is known to be the receptor for B7 ligands (CD80 and CD86) present on antigen presenting cells. A subset of CD4 T cells expressing CD25 and CTLA-4 has been recognized as a potent suppressor cell population, counteracting autoimmunity and inflammation. These 'regulatory' T cells (Treg) which produce the anti-inflammatory cytokine interleukin-10 (IL-10) but not IL-2, are able to suppress the proliferation of costimulated CD25- negative indicator cells. The capacity of these naturally occurring regulatory T cells to suppress autoimmunity and inflammation suggests that therapies which activate and expand this subset could become extremely effective treatments for these immune-pathological disorders.

This clone has been tested in flow cytometry. In rats, the constitutive expression of CTLA-4 at the level detectable by flow cytometry is restricted to the CD25+ subset of CD4 T cells and thymocytes.

PRESENTATION:

**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.

**LE:** Purified Ig buffered in PBS, no preservative, 0.2µm sterile filtered. (Purified from cell culture supernatant 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:

For all formats, store at 4°C. DO NOT FREEZE PE 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.

Continued Overleaf.....
**SPECIFICATIONS:**

Clone: WKH 203

Hybridoma Production:

- Immunization: Immunogen: Purified rCTLA-4hlg fusion protein
- Donor: BALB/c mice spleen cells
- Fusion Partner: X63 Ag8.653 myeloma cells

Specificity: Rat CD152

**TEST RESULTS:**

Tissue Distribution by Flow Cytometry Analysis:

- Rat Strain: Wistar
- Cell Concentration: 1x10^6 cells per test
- Antibody Concentration Used: 2.0 µg/10^6 cells

* (T cells isolated with CL102 Cedarlane’s Rat T Cell Recovery Column Kit)

<table>
<thead>
<tr>
<th>Cell Source</th>
<th>Percentage of cells stained above control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lymph Node (on CD25+ cells)</td>
<td>73.1%</td>
</tr>
<tr>
<td>Spleen (on CD25+ cells)</td>
<td>87.3%</td>
</tr>
<tr>
<td>Thymus (on CD25+ cells)</td>
<td>76%</td>
</tr>
</tbody>
</table>

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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