Anti-Mouse/Rat CD81
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>CL8981AP</td>
<td>Purified</td>
<td>250µg</td>
<td>1.0 mg/ml</td>
<td>CLCHM000</td>
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<tr>
<td>CL8981NA</td>
<td>No Azide</td>
<td>1.0mg</td>
<td>1.0 mg/ml</td>
<td>CLCHM000</td>
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<tr>
<td>CL8981B/-3</td>
<td>Biotin</td>
<td>100µg/300µg</td>
<td>0.1 mg/ml</td>
<td>CLCHM15</td>
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<tr>
<td>CL8981F/-3/-5</td>
<td>FITC</td>
<td>100µg/300µg/500 µg</td>
<td>0.1 mg/ml</td>
<td>CLCHM01</td>
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<tr>
<td>CL8981PE/-3/-4</td>
<td>PE</td>
<td>50µg/300µg /200µg</td>
<td>0.1 mg/ml</td>
<td>CLCHM04</td>
</tr>
</tbody>
</table>

Isotype: Armenian Hamster IgG

DESCRIPTION:
Cedarlane’s CL8981 reacts with the extracellular loops of murine CD81 (TAPA-1) molecule. As a member of the tetraspanin superfamily of cell-surface proteins, CD81 has been linked to the control of cell proliferation, adhesion and motility. CD81 is expressed in higher levels on resting murine B cells than on resting T cells and is functionally active on B cells as it induces homotypic adhesion of B lymphocytes. Unlike human CD81, which is expressed equally on all thymocytes, murine CD81 is upregulated on CD4⁺CD8⁺ thymocytes, then down-regulated again on mature single-positive thymocytes. Murine dendritic cells, splenic macrophages and non-killer cells all express very high levels of CD81. CD81 has also been involved in the induction of IL-4 secretion from T cells during Th2 immune responses. It has been reported that CD81 expression can also be induced in mature T cells upon activation. This anti-CD81 mAb has been shown to decrease the proliferation of LPS stimulated CD81⁺⁺ B cells to levels similar to that of CD81⁻⁻ B cells.

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.
- **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.
- **No Azide**: Purified Ig buffered in PBS, no preservative, 0.2µm sterile filtered.

STORAGE/STABILITY:
For all other formats, store at 4°C. DO NOT FREEZE PE conjugates. For long term storage (Purified, Biotin, NA and FITC), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.
SPECIFICATIONS:

Clone: Eat2
Immunogen: CD81+ mouse B lymphoma 38C13
Specificity: Mouse CD81 (TAPA-1)

TEST RESULTS:

Tissue distribution by Flow Cytometry Analysis:

Mouse Strain: C57BL/6
Cell Concentration: 1 x 10^6 cells per test
Antibody Concentration: 1.0 µg/10^6 cells

** B cells isolated with CL131 – Cedarlane’s Mouse B Cell Recovery Kit

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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