### Anti-Human CD37
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>CL7657AP</td>
<td>Purified</td>
<td>250µg</td>
<td>1.0 mg/ml</td>
<td>CLCMG100</td>
</tr>
<tr>
<td>CL7657APC</td>
<td>APC</td>
<td>100µg</td>
<td>0.1 mg/ml</td>
<td>CLCMG105</td>
</tr>
<tr>
<td>CL7657B</td>
<td>Biotin</td>
<td>100µg</td>
<td>0.1 mg/ml</td>
<td>CLCMG115</td>
</tr>
<tr>
<td>CL7657F</td>
<td>FITC</td>
<td>100µg</td>
<td>0.1 mg/ml</td>
<td>CLCMG101</td>
</tr>
<tr>
<td>CL7657PE</td>
<td>PE</td>
<td>50µg</td>
<td>0.1 mg/ml</td>
<td>CLCMG104</td>
</tr>
</tbody>
</table>

**Isotype:** Mouse IgG<sub>1</sub>

**DESCRIPTION:**
Leukocyte antigen CD37, also known as Tetraspanin-26, is a member of the transmembrane 4 superfamily. It is a cell-surface protein that contains 4 transmembrane spanning regions and is known to complex with integrins and other transmembrane 4 superfamily proteins including CD53, CD81 and CD82. CD37 is expressed by mature human B cells in blood and tonsil, weakly expressed on T cells and myeloid cells, but not expressed on thymocytes, granulocytes, or platelets. Studies of malignant B cell tumors revealed that the antigen is expressed by virtually all Ig-expressing B cell tumors but only 10% of SIg B-lineage leukemias. CD37 has been shown to be involved in B cell survival, regulation of T-cell proliferation and dendritic cells antigen presentation.

**PRESENTATION:**
Purified: Purified IgG buffered in PBS and 0.02% NaN<sub>3</sub>. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.
APC, Biotin, FITC and PE: APC/Biotin/FITC/PE conjugated IgG buffered in PBS, 0.02% NaN<sub>3</sub> 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 APC, PE 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: MB-1

*Continued Overleaf....*
Hybridoma Production:
Immunization:
  Immunogen: lymph node cells from a patient with nodular poorly differentiated lymphocytic lymphoma.
  Donor: BALB/c mice
  Fusion Partner: Mouse myeloma cell line P3X63.Ag.8.653.

Specificity: This antibody is specific for human CD37.

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:
Cell Concentration: 1x10^6 cells per test
Antibody Concentration Used: 0.2 µg/10^6 cells

Cell Source: Human PBLs
Percentage of cells stained above control: 8.84%

Human peripheral blood lymphocytes were stained with anti-CD37 (clone: MB-1) (filled histogram) or Mouse IgG1 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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