**Anti-Human HLA-DOB**
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>CLHLA-04AP</td>
<td>Purified</td>
<td>200 µg</td>
<td>1.0 mg/ml</td>
<td>CLCMG100</td>
</tr>
<tr>
<td>CLHLA-04B</td>
<td>Biotin</td>
<td>100 µg</td>
<td>0.1 mg/ml</td>
<td>CLCMG115</td>
</tr>
<tr>
<td>CLHLA-04F</td>
<td>FITC</td>
<td>100 µg</td>
<td>0.1 mg/ml</td>
<td>CLCMG101</td>
</tr>
</tbody>
</table>

**Isotype:** Mouse IgG1

**DESCRIPTION:**

HLA-DOB belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DOA) and a beta chain (DOB), both anchored in the membrane. It is located in intracellular vesicles. DO suppresses peptide loading of MHC class II molecules by inhibiting HLA-DM. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The beta chain is approximately 26-28 kDa and its gene contains 6 exons.

**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 and FITC:** Biotin and FITC 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. For long term storage (**Purified, Biotin, FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

**APPLICATION:**

This antibody is suitable for use in western blot and ELISA. Only the FITC conjugated version (CLHLA-04F) is suitable for use in intracellular flow cytometry.

*Continued…*
SPECIFICATIONS:

Clone: 10E6/5

Hybridoma Production:

Immunization: Immunogen: C-terminal peptide from human HLA-DOB, HLA class II.
Donor: Balb/c spleen

Fusion Partner: Sp2/0Ag.14

Specificity: Human HLA-DOB, MHC class II.

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Cell Concentration: 1x10⁶ cells per test
Antibody Concentration Used: 1.0 µg/10⁶ cells
Cell Source: Human Lymphocytes (fixed and permeabilized)

![Flow Cytometry Graph]

Human lymphocytes were fixed and permeabilized according to the manufacturer’s specifications using Biolegend cat# 420801 (Fixation Buffer) and 421002 (Intracellular Staining Perm Wash Buffer 10X). Cells were stained with CLHLA-04F (red histogram) or Mouse IgG1 isotype control (black histogram).

N.B. Appropriate control samples should always be included in any labelling studies.

* For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.

REFERENCES:


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