CD81 (JS-81)

DESCRIPTION

Specificity

The CD81 antibody recognizes a 26-kilodalton (kDa) member of the tetraspanin family (TM4SF). The CD81 antigen is also known as TAPA-1.

Antigen distribution

The CD81 antigen has a very broad cellular distribution, being expressed on cells of hematopoietic, neuroectodermal, and mesenchymal origin. In hematopoietic cells, the CD81 antigen is expressed on B and T lymphocytes, natural killer (NK) cells, thymocytes, eosinophils, germinal center follicular dendritic cells, and to a variable extent on monocytes. The CD81 antigen is not expressed on neutrophils, platelets, or erythrocytes.

The CD81 antigen is involved in cell growth and signal transduction. Immunoprecipitation studies reveal that the CD81 antigen is a component of a multimolecular complex that can include the Leu13 molecule, and the CD19 and CD21 molecules in B cells.

Clone

The CD81 antibody, clone JS-81, is derived from the hybridization of P3/NS1/1-Ag4-1 mouse myeloma cells with spleen cells isolated from mice immunized with the Burkitt lymphoma cell line, Ramos.

Composition

The CD81 antibody is composed of mouse IgG1 heavy chains and kappa light chains.

Product configuration

The following is supplied in phosphate buffered saline (PBS) containing a stabilizer and a preservative.

<table>
<thead>
<tr>
<th>Form</th>
<th>Number of tests</th>
<th>Volume per test (µL)</th>
<th>Amount provided (µg)</th>
<th>Total volume (mL)</th>
<th>Concentration (µg/mL)</th>
<th>Stabilizer</th>
<th>Preservative</th>
</tr>
</thead>
<tbody>
<tr>
<td>APC-H7</td>
<td>100</td>
<td>5</td>
<td>50</td>
<td>0.5</td>
<td>100</td>
<td>BSA</td>
<td>ProClin® 300</td>
</tr>
</tbody>
</table>

a. Volume required to stain 10⁶ cells.

CAUTION Some APC-H7 conjugates show changes in their emission spectra with prolonged exposure to paraformaldehyde or light. For overnight storage of stained cells, wash and resuspend in buffer without paraformaldehyde after 1 hour of fixation.

Purity

APC-H7: ≤20% free fluorophore at bottling, as measured by size-exclusion chromatography (SEC)

Analyte Specific Reagent. Analytical and performance characteristics are not established.
HANDLING AND STORAGE

Store vials at 2°C–8°C. Conjugated forms should not be frozen. Protect from exposure to light. Each reagent is stable until the expiration date shown on the bottle label when stored as directed.

WARNING

All biological specimens and materials coming in contact with them are considered biohazards. Handle as if capable of transmitting infection and dispose of with proper precautions in accordance with federal, state, and local regulations. Never pipette by mouth. Wear suitable protective clothing, eyewear, and gloves.

Some reagents are bottled with ProClin 300, and contain 0.003% of a mixture of CMIT/MIT (3:1), CAS number 55965-84-9.

CHARACTERIZATION

To ensure consistently high-quality reagents, each lot of antibody is tested for conformance with characteristics of a standard reagent.

WARRANTY

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REFERENCES


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