Anti-Cytokeratin (CAM 5.2)

Monoclonal Antibodies
Detecting Human Antigens

Research applications include:

- Studies of human keratin proteins

DESCRIPTION

Specificity

The Anti-Cytokeratin antibody has a primary reactivity with human cytokeratin proteins that correspond to Moll’s peptide #7 (cytokeratin 7) and Moll’s peptide #8 (cytokeratin 8), 54 and 53 kilodaltons (kDa), respectively.

Antigen distribution

The cytokeratin 7 and 8 antigens are present on secretory epithelia of normal human tissue, but not on stratified squamous epithelium. The Anti-Cytokeratin antibody stains most epithelial-derived tissue, including liver, renal tubular epithelium, and hepatocellular and renal cell carcinomas. The Anti-Cytokeratin antibody might not react with some squamous cell carcinomas.

Clone

The Anti-Cytokeratin antibody, clone CAM 5.2, is derived from the hybridization of P3/NS-1/1-Ag4-1 mouse myeloma cells with spleen cells from BALB/c mice immunized with the human colorectal carcinoma cell line HT29.

Composition

The Anti-Cytokeratin antibody is composed of mouse IgG2a heavy chains and kappa light chains.

Product configuration

The following are 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 (µL)</th>
<th>Concentration (µg/µL)</th>
<th>Stabilizer</th>
<th>Preservative</th>
</tr>
</thead>
<tbody>
<tr>
<td>FITC</td>
<td>100</td>
<td>20</td>
<td>50</td>
<td>2.0</td>
<td>25</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
</tr>
<tr>
<td>PE</td>
<td>50</td>
<td>20</td>
<td>6</td>
<td>1.0</td>
<td>6</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
</tr>
</tbody>
</table>

a. Volume required to stain 10^6 cells.

PROCEDURE

Visit our website (bdbiosciences.com) or contact your local BD representative for the lyse/wash protocol for direct immunofluorescence.

REPRESENTATIVE DATA

Flow cytometric analysis was performed on whole blood containing SK-BR-3 cells stained with the indicated conjugated antibody. Laser excitation was at 488 nm. Representative data analyzed with a BD FACSTM brand flow cytometer is shown in the following plot.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

Becton, Dickinson and Company
BD Biosciences
2350 Qume Drive
San Jose, CA 95131 USA

bdbiosciences.com
ResearchApplications@bd.com

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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.

CHARACTERIZATION
To ensure consistently high-quality reagents, each lot of antibody is tested for conformance with characteristics of a standard reagent. Representative flow cytometric data is included in this data sheet.

WARRANTY
Unless otherwise indicated in any applicable BD general conditions of sale for non-US customers, the following warranty applies to the purchase of these products.

REFERENCES