Technical Data Sheet

PE Rat Anti-Human CD104

Product Information

Material Number: 555720
Alternate Name: Integrin β4 chain; Integrin beta 4; ITGB4; GP150; TSP-180
Size: 100 Tests
Vol. per Test: 20 µl
Clone: 439-9B
Immunogen: Human CD104 Protein
Isotype: Rat (F344) IgG2b, κ
Reactivity: QC Testing: Human
Workshop: V BP480, S247
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The 439-9B monoclonal antibody specifically recognizes CD104, integrin β4 chain, a 205 kDa transmembrane glycoprotein, which associates with CD49f (integrin α6 chain) to form the α6/β4 (CD49f/CD104) complex. It is expressed on epithelial cells, Schwann cells, and some tumor cells. The CD49f/CD104 complex is located in the hemidesmosomes of the epidermis, suggesting its role in epidermal cell-basement membrane adhesion. The clone 439-9B was clustered as CD104 at the fifth Human Leucocyte Differentiation Antigen International Workshop. It may be used for immunoprecipitation, immunoblotting and immunohistochemistry on frozen tissue sections.

Flow cytometric analysis of CD104 expression on A431 cells, a human epidermal carcinoma cell line. A431 cells were stained with either PE Rat IgG2b, κ Isotype Control (Cat. No. 555848; dashed line histogram) or PE Rat Anti-Human CD104 (Cat. No. 555720; solid line histogram). Fluorescent histograms were derived from gated events with the side and forward light-scattering characteristics of viable A431 cells. Flow cytometry was performed on a BD FACScan™ system.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry Routinely Tested

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>555848</td>
<td>PE Rat IgG2b, κ Isotype Control</td>
<td>100 Tests</td>
<td>R35-38</td>
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<td>554656</td>
<td>Stain Buffer (FBS)</td>
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<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
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</tbody>
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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use $1 \times 10^6$ cells in a 100-µl experimental sample (a test).

2. An isotype control should be used at the same concentration as the antibody of interest.

3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.


References


