Technical Data Sheet

Purified Rat Anti-Mouse CD49e

Product Information

Material Number: 553319
Alternate Name: Integrin α5 chain
Size: 0.5 mg
Concentration: 0.5 mg/ml
Clone: 5H10-27 (MFR5)
Immunogen: Mouse mast cell line MC/9
Isotype: Rat (LEW) IgG2a, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 5H10-27 (MFR5) antibody reacts with the α5 chain of the integrin α5β1 fibronectin receptor (CD49e/CD29, VLA-5) on thymocytes, activated T lymphocytes, mast cells, and a variety of mouse cell lines, but not splenocytes. Soluble 5H10-27 (MFR5) antibody has been reported to inhibit VLA-5-mediated functions in vitro. In addition, immobilized mAb 5H10-27 (MFR5) has been demonstrated to costimulate the proliferative response of CD8+ T cells to plate-bound anti-CD3e antibody.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4°C.

Application Notes

<table>
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<tr>
<th>Application</th>
<th>Flow cytometry</th>
<th>(Co)-stimulation</th>
<th>Blocking</th>
<th>Routinely Tested</th>
<th>Immunofluorescence</th>
<th>Reported</th>
<th>Immunohistochemistry-frozen</th>
<th>Reported</th>
<th>Immunohistochemistry-paraffin</th>
<th>Not Recommended</th>
</tr>
</thead>
</table>

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>553927</td>
<td>Purified Rat IgG2a, κ Isotype Control</td>
<td>0.5 mg</td>
<td>R35-95</td>
</tr>
<tr>
<td>554016</td>
<td>FITC Goat Anti-Rat Ig</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. 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.
4. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.

References


