Technical Data Sheet

Purified Hamster Anti-Rat CD49b

Product Information

Material Number: 554998
Alternate Name: Integrin α2 chain
Size: 0.5 mg
Concentration: 0.5 mg/ml
Clone: Ha1/29
Immunogen: Cultured Rat Glomerular Epithelial
Isotype: Armenian Hamster IgG2, λ
Reactivity: QC Testing: Rat
Tested in Development: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The Ha1/29 antibody reacts with integrin α2 chain (CD49b or VLA-2 α chain), the 160-kDa transmembrane glycoprotein that non-covalently associates with the integrin β1 subunit (CD29) to form the integrin α2β1 complex known as VLA-2. VLA-2, a receptor for collagen and laminin, is expressed on activated lymphocytes, epithelial cells, and platelets. It has been reported that Ha1/29 antibody can block VLA-2 binding to collagen and laminin. Ha1/29 antibody also reacts with mouse CD49b.

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

Application

Flow cytometry Routinely Tested
Immunohistochemistry-frozen Tested During Development
Immunoprecipitation Reported
Immunocytochemistry (cytospins) Reported
Blocking Reported

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>553962</td>
<td>Purified Hamster IgG2, λ1 Isotype Control</td>
<td>0.5 mg</td>
<td>Ha4/8</td>
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<tr>
<td>554011</td>
<td>FITC Mouse Anti-Armenian and Syrian Hamster IgG Cocktail</td>
<td>0.5 mg</td>
<td>(none)</td>
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</table>

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Although hamster immunoglobulin isotypes have not been well defined, BD Biosciences Pharmingen has grouped Armenian and Syrian hamster IgG monoclonal antibodies according to their reactivity with a panel of mouse anti-hamster IgG mAbs. A table of the hamster IgG groups, Reactivity of Mouse Anti-Hamster Ig mAbs, may be viewed at http://www.bdbiosciences.com/pharmingen/hamster_chart_11x17.pdf.
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.

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References

