BD Pharmingen™

Technical Data Sheet

Purified NA/LE Hamster Anti-Mouse CD29

Product Information

Material Number: 562219
Alternate Name: Itgb1; Integrin beta-1; Fnrb; gpIIa; VLA-4 subunit beta
Size: 0.5 mg
Concentration: 1.0 mg/ml
Clone: HM β1-1
Immunogen: Purified mouse VLA-4
Isotype: Armenian Hamster IgG2, λ1
Reactivity: QC Testing: Mouse
Storage Buffer: No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered. Endotoxin level is ≤0.01 EU/µg (≤0.001 ng/µg) of protein as determined by the LAL assay.

Description

The HMβ1-1 antibody reacts with the 130-kDa integrin β1 chain (CD29). CD29 is expressed on the cell surface as a heterodimer with one of the distinct integrin-α chains. With α1 through α6 (CD49a through CD49f), it forms the VLA-1 through VLA-6 complexes, respectively, and with αv (CD51), it forms αvβ1 integrin. It also associates with the integrin α7, α8, and α9 chains in non-lymphoid tissues. As a result, CD29 has a broad tissue distribution, including lymphocytes, endothelia, smooth muscle, epithelia, and oocytes. This hamster mAb to a mouse leukocyte antigen has been observed to crossreact with similar populations of rat leukocytes. Source of the immunogen was purified mouse VLA-4 (α4β1, CD49d/CD29).

Preparation and Storage

Store undiluted at 4°C.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

<table>
<thead>
<tr>
<th>Application</th>
<th>Routinely Tested</th>
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<tbody>
<tr>
<td>Flow cytometry</td>
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<tr>
<td>Immunoprecipitation</td>
<td>Reported</td>
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<tr>
<td>Blocking</td>
<td>Reported</td>
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<tr>
<td>Inhibition</td>
<td>Reported</td>
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</tbody>
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Recommended Assay Procedure:

Reported applications include immunoprecipitation and in vitro inhibition (in combination with a mAb to mouse CD11a) of T-cell proliferative responses to anti-CD3e mAb 145-2C11 (Cat. no. 553057) and allogeneic cells. We recommend our immunohistochemistry formulation of purified HM β1-1 mAb (Cat. No. 550530) for immunohistochemical staining (IHC) of rat tissues. For IHC of mouse tissues, we recommend the use of Purified Rat anti-Mouse CD29 mAb 9EG7 formulated for immunohistochemistry application (Cat. No. 550531).

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>553961</td>
<td>Purified NA/LE Hamster IgG2, λ1 Isotype Control</td>
<td>0.5 mg</td>
<td>Ha4/8</td>
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<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 ml</td>
<td>(none)</td>
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Product Notices

2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.

References


BD Biosciences

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