Technical Data Sheet

Purified Mouse Anti-Rat CD63

Product Information

Material Number: 551458
Alternate Name: ME491
Size: 0.1 mg
Concentration: 0.5 mg/ml
Clone: AD1
Immunogen: Rat basophilic leukemia cell line
Isotype: Mouse (BALB/c) IgG1, κ
Reactivity: QC Testing: Rat
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The AD1 antibody reacts with a 50-60-kDa protein that is a homolog (87%) of human CD63 (melanoma-associated antigen ME491). CD63, a highly glycosylated type-III lysosomal glycoprotein, is a member of the tetraspan transmembrane 4 superfamily (TM4SF) that also includes CD9, CD37, and CD53. In the rat, CD63 is expressed on mast cells and platelets. CD63 is also found on rat embryonic fibroblasts and hepatic cells, along with cultured cells of diverse origins (e.g., liver, lung, and heart). Expression is upregulated with culture. CD63 is expressed in close proximity to the FcεRI on rat mast cells and has been shown to partially inhibit IgE-mediated histamine release. The function of CD63 has not been fully characterized.

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

<table>
<thead>
<tr>
<th>Application</th>
<th>Routinely Tested</th>
<th>Reported</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow cytometry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistochemistry</td>
<td></td>
<td>Reported</td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

BD Biosciences

For country-specific contact information, visit bdbiosciences.com/how_to_order/

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

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2008 BD

551458 Rev. 3
## Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>557273</td>
<td>Purified Mouse IgG1, κ Isotype Control</td>
<td>0.5 mg</td>
<td>MOPC-31C</td>
</tr>
<tr>
<td>553441</td>
<td>Biotin Rat Anti-Mouse IgG1</td>
<td>0.5 mg</td>
<td>A85-1</td>
</tr>
<tr>
<td>554060</td>
<td>FITC Streptavidin</td>
<td>0.5 mg</td>
<td>(none)</td>
</tr>
<tr>
<td>554970</td>
<td>PE Mouse Anti-Rat CD54</td>
<td>0.2 mg</td>
<td>1A29</td>
</tr>
</tbody>
</table>

## 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.

## References


Nishikata H, Oliver C, Mergenhagen SE, Siraganian RP. The rat mast cell antigen AD1 (homologue to human CD63 or melanoma antigen ME491) is expressed in other cells in culture. J Immunol. 1992; 149(3):862-870. (Biology)