Technical Data Sheet
Purified Rat Anti-Mouse CD43

Product Information

Material Number: 553268
Alternate Name: Ly-48, Leukosialin
Size: 0.5 mg
Concentration: 0.5 mg/ml
Clone: S7
Immunogen: Mouse Plasmacytoma MOPC-315
Isotype: Rat (DA x LOU) IgG2a, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The S7 antibody reacts with the 115 kDa glycoform of CD43 (Ly-48, Leukosialin) which is expressed on IL-7-responsive pro-B cells, plasma cells, peritoneal and splenic CD5+ B cells (B-1 cells), granulocytes, monocytes, macrophages, platelets, natural killer cells, thymocytes, peripheral T cytotoxic/suppressor cells, and most T helper cells, but not resting conventional peripheral B cells. CD43 expression has also been detected on pluripotent hematopoietic stem cells and myeloid, lymphoid, and NK-cell progenitors in the bone marrow. Studies of CD43-deficient mice indicate that CD43 participates in the negative regulation of T-cell activation and adhesion.

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

<table>
<thead>
<tr>
<th>Flow Cytometry</th>
<th>Routinely Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western blot</td>
<td>Reported</td>
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<tr>
<td>(Co)-stimulation</td>
<td>Reported</td>
</tr>
</tbody>
</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>554016</td>
<td>FITC Goat Anti-Rat IgG</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>553927</td>
<td>Purified Rat IgG2a, κ Isotype Control</td>
<td>0.5 mg</td>
<td>R35-95</td>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to wwwbdbiosciences.com/pharmingen/protocols for technical protocols.
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.

BD Biosciences

553268 Rev. 16
References


