Technical Data Sheet

Biotin Rat Anti-Mouse CD43

Product Information

Material Number: 553269
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: 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 Tcytotoxic/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. The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

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<td>Flow cytometry</td>
<td>Routinely Tested</td>
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Product Notices

1. 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.
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.

References


BD Biosciences

553269 Rev. 12