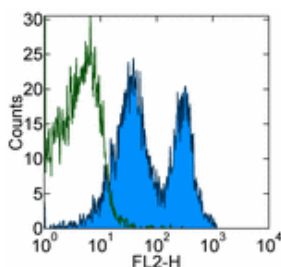


Anti-Mouse CD43 Purified

Catalog Number: 14-0431

Also Known As: Leukosialin, LSN, Sialophorin, SPN

RUO: For Research Use Only



Staining of C57Bl/6 splenocytes with 0.25 μ g of Rat IgM Isotype Control Purified (cat. 14-4341) (open histogram) or 0.25 μ g of Anti-Mouse CD43 Purified (filled histogram) followed by Anti-Rat IgM PE (cat. 12-0990). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD43 Purified


REF Catalog Number: 14-0431

Clone: eBioR2/60

Concentration: 0.5 mg/ml


Host/Isotype: Rat IgM

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

The eBioR2/60 monoclonal antibody reacts with mouse CD43, also known as leukosialin and sialophorin. CD43 has glycoforms of approximately 115 and 130 kDa, and is expressed by an early B cell subset in BM, thymocytes and mature T cells, NK cells, myeloid lineage cells and platelets. CD43 is reported to bind to CD54 and play a role in adhesion and B cell survival.

While the S7 and 1B11 monoclonal antibody clones detect only certain isoforms of CD43, data suggests that R2/60 detects the expression of both isoforms. It has been demonstrated that R2/60 stains the majority of CD4+ and CD8+ splenocytes, as well as a significant population of CD19+ splenocytes. However, the clones S7 and 1B11 stain only CD4+ and CD8+, or CD19+ splenocytes, respectively. This suggests that S7 and 1B11 recognize distinct epitopes which are differentially expressed by splenic B and T cells, whereas R2/60 recognizes an epitope shared by both isoforms of CD43.

Applications Reported

This eBioR2/60 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunoblotting (WB). (Please use Functional Grade eBioR2/60 (cat. 16-0431) in functional assays.)

Applications Tested

This eBioR2/60 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Bagriacik EU, Armstrong MD, Okabe M, Klein JR. Differential expression of CD43 isoforms on murine T cells and their relationship to acute intestinal graft versus host disease: studies using enhanced-green fluorescent protein transgenic mice. *Int Immunol.* 1999 Oct;11(10):1651-62. (R2/60, WB, FC, PubMed)

Sperling AI, Green JM, Mosley RL, Smith PL, DiPaolo RJ, Klein JR, Bluestone JA, Thompson CB. CD43 is a murine T cell costimulatory receptor that functions independently of CD28. *J Exp Med.* 1995 Jul 1;182(1):139-46. (R2/60, FC, WB, FA, PubMed)

Related Products

11-0990 Anti-Rat IgM FITC (HIS40)

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

14-4341 Rat IgM Isotype Control Purified

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