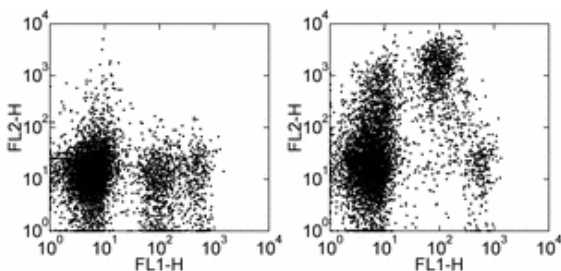


Anti-Mouse CD93 (AA4.1) Purified

Catalog Number: 14-5892

Also Known As: C1qRp, Early B lineage antigen

RUO: For Research Use Only



Staining of C57BL/6 bone marrow cells with Anti-Human/Mouse CD45R (B220) FITC (cat. 11-0452) and 0.5 µg of Rat IgG2b κ Isotype Control Purified (cat. 14-4031) (left) or 0.5 µg of Anti-Mouse CD93 (AA4.1) Purified (right) followed by Anti-Rat IgG Biotin (cat. 13-4813) and Streptavidin PE (cat. 12-4317). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD93 (AA4.1) Purified


REF Catalog Number: 14-5892

Clone: AA4.1

Concentration: 0.5 mg/ml


Host/Isotype: Rat IgG2b, κ

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 AA4.1 monoclonal antibody reacts with mouse C1qRp, an approximately 130-140 kDa C-type lectin-like type I transmembrane protein. The AA4.1 antigen was originally identified as an antigen expressed on early stages of B cell development in bone marrow. Adult spleen and fetal liver also have detectable numbers of AA4.1⁺ cells. In combination with other markers of hematopoietic progenitor cells such as Thy-1, Sca-1, c-Kit, CD43, and CD24, the bone marrow Lymphoid-Committed Progenitors (CLP) can be segregated into more primitive and more differentiated subsets based on expression of AA4.1. Correlated expression of surface IgM (sIgM), CD23, and AA4.1 antigen has also been used to define three nonproliferative subpopulations of immature/transitional peripheral B cells designated: T1 (AA4.1⁺/CD23⁻/sIgM^{hi}), T2 (AA4.1⁺/CD23⁺/sIgM^{hi}), and T3 (AA4.1⁺/CD23⁺/sIgM^{lo}). AA4.1 is also reported to be expressed in cytoplasmic vesicles in endothelial cells, megakaryoblasts, and platelets. It is reported that monoclonal antibodies AA4.1 and 493 recognize different epitopes of the same molecule.

Applications Reported

The AA4.1 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining.

Applications Tested

The AA4.1 antibody has been tested by flow cytometric analysis of mouse bone marrow and splenocyte cell suspensions. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

- Dean YD, McGreal EP, Akatsu H, Gasque P. 2000 Molecular and cellular properties of the rat AA4 antigen, a C-type lectin-like receptor with structural homology to thrombomodulin. *J Biol Chem.* Nov 3;275(44):34382-92.
- McKearn JP, Baum C, Davie JM. 1984 Cell surface antigens expressed by subsets of pre-B cells and B cells. *J Immunol.* Jan;132(1):332-9.

Related Products

- 11-4317 Streptavidin FITC
- 11-4811 Anti-Rat IgG FITC
- 12-4317 Streptavidin PE
- 13-4813 Anti-Rat IgG Biotin (Polyclonal)
- 14-4031 Rat IgG2b K Isotype Control Purified
- 17-4317 Streptavidin APC

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