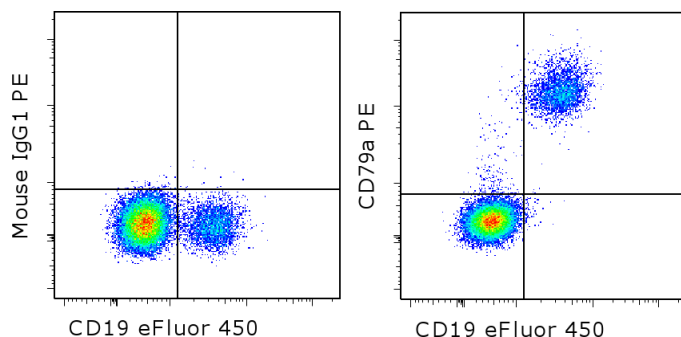


Anti-CD79a PE

Catalog Number: 12-0792

Also known as: Ig-alpha, mb-1

RUO: For Research Use Only. Not for use in diagnostic procedures.



Surface staining of normal human peripheral blood cells with Anti-Human CD19 eFluor® 450 (cat. 48-0199) followed by intracellular staining with Mouse IgG1 K Isotype Control PE (cat. 12-4714) (left) or Anti-Human CD79a PE (right) using IC Fixation and Permeabilization Buffers. Cells in the lymphocyte gate were used for analysis.

Product Information



Contents: Anti-CD79a PE

Catalog Number: 12-0792

Clone: HM47

Concentration: 5 µL (0.06 µg)

Host/Isotype: Mouse IgG1, kappa



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

Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

Batch Code: Refer to vial



Use By: Refer to vial

Contains sodium azide

Description

The monoclonal antibody HM47 recognizes the cytoplasmic domain of CD79a, also known as mb-1. CD79a is a 47 kDa membrane glycoprotein that associates with CD79b to form the heterodimeric B cell receptor (BCR). This receptor is responsible for B cell signaling, resulting in activation, apoptosis or anergy. Expression of CD79a is found throughout development from the earliest pre-B cell to plasma cells. CD79 is expressed on B cell neoplasms and some non-B cell malignancies such as AML. Unlike other antibodies that can be masked in B cell neoplastic cells, HM47 is a reliable antibody for recognizing CD79a and, as such, is a good marker for B cells. Because several variants of CD79a exist, the exact location of the epitope may differ slightly. Nevertheless, in humans this epitope is typically amino acids 208-222.

The HM47 antibody reacts to human, mouse, rat, dog, primates (rhesus, chimpanzee, macaque and baboon) pig, guinea rabbit, pig, horse, cow and chicken.

Applications Reported

This HM47 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This HM47 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.06 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.

References

Bhargava P, Kallakury BV, Ross JS, Azumi N, Bagg A. CD79a is heterogeneously expressed in neoplastic and normal myeloid precursors and megakaryocytes in an antibody clone-dependent manner. *Am J Clin Pathol.* 2007 Aug;128(2):306-13.

Miller CJ, Genescà M, Abel K, Montefiori D, Forthal D, Bost K, Li J, Favre D, McCune JM. Antiviral antibodies are

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necessary for control of simian immunodeficiency virus replication. J Virol. 2007 May;81(10):5024-35.

Astsaturov IA, Matutes E, Morilla R, Seon BK, Mason DY, Farahat N, Catovsky D. Differential expression of B29 (CD79b) and mb-1 (CD79a) proteins in acute lymphoblastic leukaemia. Leukemia. 1996 May;10(5):769-73. (HM47, PubMed)

Related Products

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)

48-0199 Anti-Human CD19 eFluor® 450 (HIB19)

88-8823 Fixation & Permeabilization Buffers