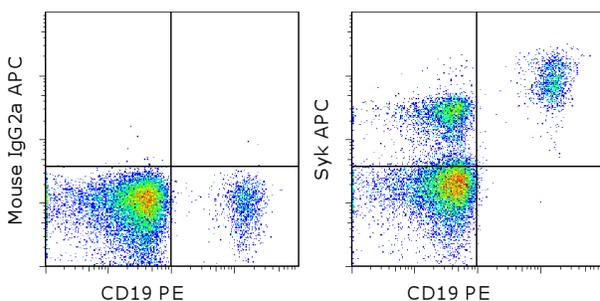


Anti-Human Syk APC

Catalog Number: 17-6696

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



Surface staining of normal human peripheral blood cells with Anti-Human CD19 PE (cat. 12-0199) followed by intracellular staining with Mouse IgG2a K Isotype Control PE (cat. 17-4724) (left) or Anti-Human Syk APC (right) using the Foxp3 Staining Buffer Set (cat. 00-5523). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human Syk APC
Catalog Number: 17-6696
Clone: 4D10.1
Concentration: 5 μ L (0.125 μ g)/test
Host/Isotype: Mouse IgG2a, 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

Description

This 4D10.1 monoclonal antibody recognizes human Syk, a 72-kDa member of the Syk/ZAP-70 family of non-receptor protein tyrosine kinases. Syk is expressed most highly in B cells, with lower expression in immature thymocytes, mast cells, and platelets. Syk can also be detected in fibroblasts, epithelial cells, hepatocytes, endothelial cells, and neuronal cells. This protein is a major component of signaling cascades downstream of the B and T cell antigen receptors and plays an essential role in lymphocyte development. Upon recruitment to immunoreceptor tyrosine-based activation motifs (ITAMs) on the antigen receptors, Syk is activated by phosphorylation on multiple tyrosines. Once activated, Syk phosphorylates proteins such as phospholipase C gamma and BLNK/SLP-65. Finally, abnormal Syk expression has been linked to tumor cell migration and invasion in several cancers.

Applications Reported

This 4D10.1 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This 4D10.1 antibody has been pre-titrated and tested by intracellular staining using the Foxp3 buffer system and flow cytometric analysis of normal peripheral blood cells. This can be used at 5 μ L (0.125 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.

References

Geahlen RL. Syk and pTyr'd: Signaling through the B cell antigen receptor. *Biochim Biophys Acta*. 2009 Jul;1793(7):1115-27.

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Chu DH, van Oers NS, Malissen M, Harris J, Elder M, Weiss A. Pre-T cell receptor signals are responsible for the

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down-regulation of Syk protein tyrosine kinase expression. J Immunol. 1999 Sep 1;163(5):2610-20. (**4D10.1**, FC, WB)

Chu DH, Spits H, Peyron JF, Rowley RB, Bolen JB, Weiss A. The Syk protein tyrosine kinase can function independently of CD45 or Lck in T cell antigen receptor signaling. EMBO J. 1996 Nov 15;15(22):6251-61.

Related Products

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

12-0199 Anti-Human CD19 PE (HIB19)

17-4724 Mouse IgG2a K Isotype Control APC

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