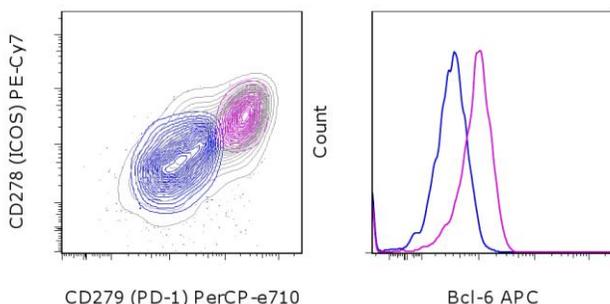


Anti-Human Bcl-6 APC

Catalog Number: 17-9880

Also known as: B-cell lymphoma 6

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



Surface staining of human tonsil cells with Anti-Human CD4 eFluor[®] 450, CD19 PE, CD279 (PD-1) PE-Cy7, CD278 (ICOS) PerCP-eFluor[®] 710, and CD45RO FITC antibodies followed by intracellular staining with Anti-Human Bcl-6 APC antibody using the Foxp3 Fixation/Permeabilization Buffers (cat. 00-5521) and protocol. The histogram (right) demonstrates Bcl-6 staining of CD4+CD45RO+CD278^{high}CD279^{high} (purple histogram) and CD4+CD45RO+CD278^{low}CD279^{low} (blue histogram) cells. Cell populations were gated as indicated on the contour plot (left). Data courtesy of Danelle Eto (Laboratory of Shane Crotty).

Product Information



Contents: Anti-Human Bcl-6 APC
Catalog Number: 17-9880
Clone: BCL-UP
Concentration: 5 μ L (0.125 μ g)/test
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

Description

The monoclonal antibody BCL-UP recognizes Bcl-6, also known as B-cell lymphoma 6, which is a member of the POZ family of transcriptional repressors. Bcl-6 is expressed most abundantly in germinal center B cells, as well as in differentiating and activated B cells. This 79 kDa protein is essential for germinal center B cell proliferation and survival. During B cell development, Bcl-6 plays an important role in promoting pre-B cell survival to enable the generation of a diverse B cell repertoire. Moreover, Bcl-6 is expressed constitutively in diffuse large B cell lymphomas (DLBCLs), Burkitt's lymphoma, and non-Hodgkin's lymphoma. Reports also suggest expression of Bcl-6 in CD4+ T follicular helper cells and memory T cells. Bcl-6 has been reported to be antagonized by Blimp-1.

Applications Reported

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

Applications Tested

This BCL-UP antibody has been pre-titrated and tested in human tonsil cells by intracellular staining with the Foxp3 Fixation/Permeabilization Buffers (cat. 00-5521) and protocol. Please see Best Protocols Section (Staining Intracellular Antigens for Flow Cytometry) for staining protocol (refer to Protocol B: One-step protocol for intracellular (nuclear) proteins). 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 10⁵ to 10⁸ cells/test.

References

Bentebibel SE, Schmitt N, Banchereau J, Ueno H. Human tonsil B-cell lymphoma 6 (BCL6)-expressing CD4+ T-cell subset specialized for B-cell help outside germinal centers. *Proc Natl Acad Sci U S A*. 2011 Aug 16;108(33):E488-97.

Chung Y, Tanaka S, Chu F, Nurieva RI, Martinez GJ, Rawal S, Wang YH, Lim H, Reynolds JM, Zhou XH, Fan HM, Liu ZM, Neelapu SS, Dong C. Follicular regulatory T cells expressing Foxp3 and Bcl-6 suppress germinal center reactions. *Nat Med*. 2011 Jul 24;17(8):983-8. doi: 10.1038/nm.2426.

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Duy C, Yu JJ, Nahar R, Swaminathan S, Kweon SM, Polo JM, Valls E, Klemm L, Shojaee S, Cerchiatti L, Schuh W, Jäck HM, Hurtz C, Ramezani-Rad P, Herzog S, Jumaa H, Koeffler HP, de Alborán IM, Melnick AM, Ye BH, Müschen M. BCL6 is critical for the development of a diverse primary B cell repertoire. *J Exp Med.* 2010 Jun 7;207(6):1209-21.

Johnston RJ, Poholek AC, DiToro D, Yusuf I, Eto D, Barnett B, Dent AL, Craft J, Crotty S. Bcl6 and Blimp-1 are reciprocal and antagonistic regulators of T follicular helper cell differentiation. *Science.* 2009 Aug 21;325(5943):1006-10.

Related Products

00-5521 Foxp3 Fixation/Permeabilization Concentrate and Diluent

11-0457 Anti-Human CD45RO FITC (UCHL1)

17-4714 Mouse IgG1 K Isotype Control APC (P3.6.2.8.1)

25-2799 Anti-Human CD279 (PD-1) PE-Cy7 (eBioJ105 (J105))

46-9948 Anti-Human CD278 (ICOS) PerCP-eFluor® 710 (ISA-3)

48-0048 Anti-Human CD4 eFluor® 450 (OKT4 (OKT-4))

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