
Anti-Human/Mouse Blimp1 Purified

Catalog Number: 14-5963

Also known as: Blimp-1, PRDM1, PRDIBF1

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

Product Information

Contents: Anti-Human/Mouse Blimp1
Purified



Catalog Number: 14-5963

Clone: 6D3

Concentration: 0.5 mg/mL

Host/Isotype: Rat IgG2a

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

Description

This 6D3 monoclonal antibody reacts with B lymphocyte-induced maturation protein-1 (Blimp-1), a transcriptional repressor expressed in B and T cells. This approximately 90-kDa protein contains five consecutive Kruppel-like zinc finger domains by which it binds DNA. In B cells, Blimp-1 promotes terminal differentiation into antibody-secreting plasma cells during a primary immune response. In addition, Blimp-1 has been implicated in germinal center formation in response to T-dependent and T-independent antigens, as well as in some diffuse large B cell lymphomas. Expressed in CD4+ and CD8+ effector/memory T cells and FoxP3+ regulatory T cells, reports have suggested possible roles for Blimp-1 in T cell homeostasis and suppression of IL-2 production. Moreover, by suppressing Th1 differentiation, Blimp-1 plays a role in T helper cell differentiation. Finally, Blimp-1 has been demonstrated to play a significant role in the terminal differentiation of effector and effector memory CD8+ T cells during viral infection.

Applications Reported

This 6D3 antibody has been reported for use in immunoblotting (WB) and immunohistology staining of paraffin-embedded tissue sections.

Applications Tested

This 6D3 antibody has been tested by western blot of reduced A20 cell lysates. For western blotting, this antibody can be used at 1-10 µg/mL. Moreover, this antibody was tested by immunohistochemistry of formalin-fixed paraffin embedded human tonsil tissue. Antigen retrieval was performed using 10mM citrate buffer at pH 6.0. For immunohistochemistry, this antibody can be used at 10 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Kallies A, Xin A, Belz GT, Nutt SL. Blimp-1 transcription factor is required for the differentiation of effector CD8(+) T cells and memory responses. *Immunity*. 2009 Aug 21;31(2):283-95.

Ciimmino L, Martins GA, Liao J, Magnusdottir E, Grunig G, Perez RK, Calame KL. Blimp-1 attenuates Th1 differentiation by repression of ifng, tbx21, and bcl6 gene expression. *J Immunol*. 2008 Aug 15;181(4):2338-47.

Martins G, Calame K. Regulation and functions of Blimp-1 in T and B lymphocytes. *Annu Rev Immunol*. 2008;26:133-69. Review.

Kallies A, Hawkins ED, Belz GT, Metcalf D, Hommel M, Corcoran LM, Hodgkin PD, Nutt SL. Transcriptional repressor Blimp-1 is essential for T cell homeostasis and self-tolerance. *Nat Immunol*. 2006 May;7(5):466-74.

Shapiro-Shelef M, Lin KI, McHeyzer-Williams LJ, Liao J, McHeyzer-Williams MG, Calame K. Blimp-1 is required for the formation of immunoglobulin secreting plasma cells and pre-plasma memory B cells.

Related Products

14-4321 Rat IgG2a K Isotype Control Purified (eBR2a)

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