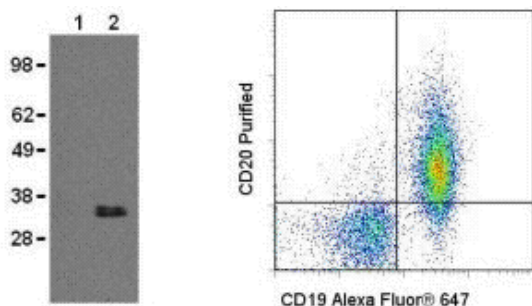


## Anti-Mouse CD20 Purified

Catalog Number: 14-0201

Also Known As: B1, Ms4a2, Ly-44

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



Left: Immunoblot of Balb/c thymus (lane 1) and A20 (lane 2) cell lysates with Anti-Mouse CD20 Purified. Right: Staining of BALB/c splenocytes with Anti-Mouse CD19 Alexa Fluor® 647 and 1.0 ug Anti-Mouse CD20 Purified followed by Anti-Rat IgG PE (cat. 12-4822). Quadrant lines represent Rat IgG2a isotype control staining levels and cells in the lymphocyte gate were used for analysis.

### Product Information

Contents: Anti-Mouse CD20 Purified

 Catalog Number: 14-0201

Clone: AISB12

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.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

### Description

The AISB12 monoclonal antibody reacts with mouse CD20. CD20 is a B cell-specific 32kDa membrane protein involved in intracellular calcium regulation. CD20 expression begins after the induction of CD19 during development, and is coexpressed with IgM during the pre-B to immature B cell transition in bone marrow. Expression then increases during maturation with almost all mature cells expressing some level of CD20. The human CD20 antigen has proven to be an effective immunotherapeutic target in B cell lymphoma and several autoimmune diseases including rheumatoid arthritis and type I diabetes. CD20 consists of 4 transmembrane domains and a 44 amino acid extracellular loop domain where AISB12 binds.

### Applications Reported

This AISB12 antibody has been reported for use in flow cytometric analysis and western blotting.

### Applications Tested

This AISB12 antibody has been tested by immunoblot on A20 cell lysates and flow cytometry on mouse splenocytes.

### References

Qian J, Zheng Y, Zheng C, Wang L, Qin H, Hong S, Li H, Lu Y, He J, Yang J, Neelapu S, Kwak LW, Hou J, Yi Q. Active vaccination with Dickkopf-1 induces protective and therapeutic antitumor immunity in murine multiple myeloma. *Blood*. 2012 Jan 5;119(1):161-9. AISB12, FA, PubMed)

Uchida J, Hamaguchi Y, Oliver JA, Ravetch JV, Poe JC, Haas KM, Tedder TF. The innate mononuclear phagocyte network depletes B lymphocytes through Fc receptor-dependent mechanisms during anti-CD20 antibody immunotherapy. *J Exp Med*. 2004 Jun 21;199(12):1659-69.

Uchida J, Lee Y, Hasegawa M, Liang Y, Bradney A, Oliver JA, Bowen K, Steeber DA, Haas KM, Poe JC, Tedder TF. Mouse CD20 expression and function. *Int Immunol*. 2004 Jan;16(1):119-29.

Tedder TF, Klejman G, Distech CM, Adler DA, Schlossman SF, Saito H. Cloning of a complementary DNA encoding a new mouse B lymphocyte differentiation antigen, homologous to the human B1 (CD20) antigen, and localization of the gene to chromosome 19. *J Immunol*. 1988 Dec 15;141(12):4388-94.

### Related Products

12-4822 F(ab')<sub>2</sub> Anti-Rat IgG PE (polyclonal)

14-0209 Anti-Human CD20 Purified (2H7)

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

17-4822 F(ab')<sub>2</sub> Anti-Rat IgG APC (polyclonal)

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