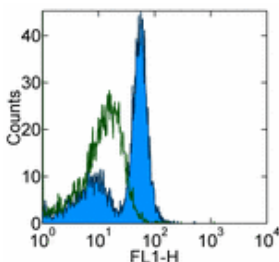


Anti-Mouse CD19 Purified

Catalog Number: 14-0191
Also Known As: AW495831
RUO: For Research Use Only



Staining of C57Bl/6 splenocytes with 1 µg of Mouse IgA Isotype Control (cat. 14-4762) (open histogram) or 1 µg of Anti-Mouse CD19 Purified (filled histogram) followed by Anti-Mouse IgA FITC (cat. 11-4204). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD19 Purified


REF Catalog Number: 14-0191

Clone: MB19-1


Concentration: 0.5 mg/ml


Host/Isotype: Mouse IgA, κ

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

 Caution, contains Azide

Description

The MB19-1 monoclonal antibody reacts with mouse CD19, a 95 kDa transmembrane glycoprotein. CD19 is expressed by B cells during all stages of development excluding the terminally differentiated plasma cells. Follicular dendritic cells also express CD19. Together CD21, CD81, MHC class II, and CD19 form a multimolecular complex that associates with the BCR. Signaling through CD19 induces tyrosine phosphorylation, calcium flux and proliferation of B cells. Staining of B cells with MB19-1 and its conjugates is usually dimmer than the rat anti-mouse CD19 antibody, clone 6D5.

Applications Reported

The MB19-1 antibody has been reported for use in flow cytometric analysis, and immunoprecipitation. MB19-1 has also been reported in *in vitro* functional studies. (Please use Functional Grade purified MB19-1 in functional assays.)

Applications Tested

The MB19-1 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. This can be used at less than or equal to 1 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

- Engel, P., L. J. Zhou, et al. (1995). "Abnormal B lymphocyte development, activation, and differentiation in mice that lack or overexpress the CD19 signal transduction molecule." *Immunity* 3(1): 39-50.
- Sato, S., N. Ono, et al. (1996). "CD19 regulates B lymphocyte signaling thresholds critical for the development of B-1 lineage cells and autoimmunity." *J Immunol* 157(10): 4371-8.
- Sato, S., D. A. Steeber, et al. (1997). "CD19 expression levels regulate B lymphocyte development: human CD19 restores normal function in mice lacking endogenous CD19." *J Immunol* 158(10): 4662-9.
- Tedder, T. F., M. Inaoki, et al. (1997). "The CD19-CD21 complex regulates signal transduction thresholds governing humoral immunity and autoimmunity." *Immunity* 6(2): 107-18.

Related Products

- 11-4204 Anti-Mouse IgA FITC (mA-6E1)
- 11-4317 Streptavidin FITC
- 12-4317 Streptavidin PE
- 13-5994 Anti-Mouse IgA Biotin (11-44-2)
- 14-4762 Mouse IgA Isotype Control Purified

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