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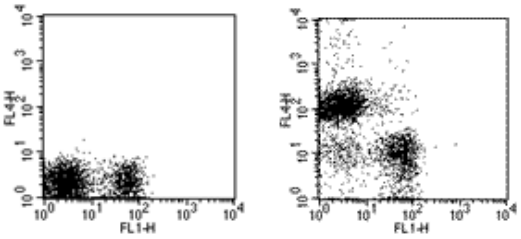
Anti-Mouse CD19 APC

Catalog Number: 17-0191
Also Known As:AW495831
RUO: For Research Use Only



Staining of mouse splenocytes with Anti-Mouse CD3e FITC (cat. 11-0031) and staining buffer (autofluorescence) (left) or 0.25 µg of Anti-Mouse CD19 APC (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD19 APC
REF Catalog Number: 17-0191
Clone: MB19-1
Concentration: 0.2 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. Do not freeze. Light sensitive material.
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.

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 0.5 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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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.
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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.

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