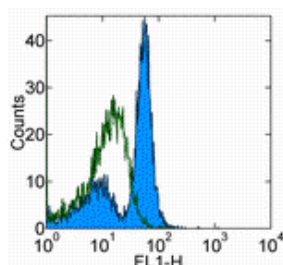


## Anti-Mouse CD19 Functional Grade Purified

**Catalog Number:** 16-0191

**Also Known As:** AW495831

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



Staining of C57Bl/6 splenocytes with 1 ug of Mouse IgA Isotype Control Functional Grade Purified (cat. 16-4762) (open histogram) or 1 ug of Anti-Mouse CD19 Functional Grade 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 Functional Grade Purified

**REF** **Catalog Number:** 16-0191

**Clone:** MB19-1

**Concentration:** 1 mg/mL

**Host/Isotype:** Mouse IgA, kappa


**Handling Conditions:** Use in sterile environment.

**Endotoxin Level:** Less than 0.001 ng/ug antibody, as determined by the LAL assay.

**Formulation:** aqueous buffer, no sodium azide

 **Temperature Limitation:** Store at 2-8°C.

**LOT** **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

### 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

This MB19-1 antibody has been reported for use in flow cytometric analysis and immunoprecipitation. The Functional Grade MB19-1 can also be used in functional assays.

### Applications Tested

This MB19-1 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 2 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<sup>5</sup> to 10<sup>8</sup> 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)

16-4762 Mouse IgA Isotype Control Functional Grade Purified

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