

Anti-CD19 [MB19-1] Bulk Size Ab02364-2.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted mouse IgG2a Fc Silent™ antibody, based on the original mouse IgA format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG2a, [Fc Silent™](#), Kappa

Clone Number: MB19-1

Alternative Name(s) of Target: B-lymphocyte antigen CD19; Differentiation antigen CD19; B-lymphocyte surface antigen B4; B4; CD19 molecule; CD19 antigen

UniProt Accession Number of Target Protein: P25918

Published Application(s): ELISA, FC, IF

Published Species Reactivity: Dog, Mouse

Immunogen: This antibody was raised by immunising CD19-deficient mice with a cell line of mCD19+ mouse pre-B cells.

Specificity: This antibody recognizes murine MB19-1 (CD19), a transmembrane protein present in B lymphocytes that regulates its activation. It is required for proper differentiation of B-1 cells.

Application Notes: This clone can be used to detect and analyze the presence of the CD19 transmembrane protein. The specificity towards the protein has been confirmed using ELISA and immunofluorescence (Sato et al., 1996; PMID: 8906812). Additionally, the MB19-1 antibody has been used in several flow cytometry assays. One group used this antibody to determine the differences in CD19 distribution between cells of young and old mice (Yamamoto et al., 2018; PMID: 29625072). Another group used it to differentiate eosinophils from other leukocytes (Vanella et al., 2017; PMID: 27043413). A final group used flow cytometry to determine the fraction of B cells cells in a sample with this antibody (Bedaret et al., 2009; PMID: 19907079).

Antibody First Published in: S Sato, N Ono, D A Steeber, D S Pisetsky, T F Tedder CD19 regulates B lymphocyte signaling thresholds critical for the development of B-1 lineage cells and autoimmunity. J Immunol. 1996 Nov 15;157(10):4371-8. [PMID:8906812](#)

Note on publication: Describes the generation of the antibody and its use in the characterization of CD19.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.