SONY

Product Data Sheet

Brilliant Violet 510™ anti-mouse CD23

Catalog # / Size: 1108115 / 50 µg

Clone: B3B4

Isotype: Rat IgG2a, κ

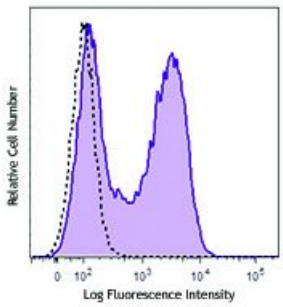
Immunogen: Complex of IgE with Fcε receptor isolated from the mouse B hybridoma cell line O1.2B2

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510™ under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Concentration: 0.2



C57BL/6 mouse splenocytes were stained with CD23 (clone B3B4) Brilliant Violet 510™ (filled histogram) or rat IgG2a, κBrilliant Violet 510™ isotype control (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 510™ is a trademark of Sirigen Group Ltd.

Application Notes: The B3B4 antibody is useful for blocking IgE activity *in vivo*. Additional reported applications (for the relevant formats) include: immunoprecipitation1, immunofluorescence microscopy, *in vitro* and *in vivo* blocking of ligand binding[2-4], and immunohistochemical staining of acetone-fixed frozen sections5.

Application References:

1. Waldschmidt TJ, *et al.* 1988. *J. Immunol.* 140:2148. (IP)
2. Rao M, *et al.* 1987. *J. Immunol.* 138:1845. (Block)
3. Oshiba A, *et al.* 1997. *J. Immunol.* 159:4056. (Block)
4. Dasic G, *et al.* 1999. *Eur. J. Immunol.* 29:2957. (Block)
5. Maeda K, *et al.* 1992. *J. Immunol.* 148:2340. (IHC)
6. Craig VJ, *et al.* 2011. *Cancer Res.* 71:3616. PubMed

Description: CD23 is a 45 kD protein also known as low affinity IgE Fc receptor, FcεRII, BLAST-2, Ly-42, or B6. It is a member of the Ig family, expressed on conventional B (but not B-1) cells and follicular dendritic cells. CD23 responds to high levels of IgE by downregulating IgE secretion.

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Antigen References:
1. Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Delespesse G, *et al.* 1992. *Immunol. Rev.* 125:77.
3. Flores-Romo L, *et al.* 1993. *Science* 261:1038.

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