

Brilliant Violet 605™ anti-mouse CD23

Catalog # / Size: 1108185 / 50 µg

Clone: B3B4

Isotype: Rat IgG2a, κ

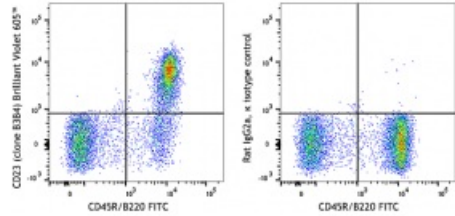
Immunogen: Complex of IgE with Fcε receptor isolated from the mouse B hybridoma cell line O1.2B2

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions.

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

Concentration: 0.2 mg/mL



C57BL/6 mouse splenocytes were stained with CD45R/B220 FITC and CD23 (clone B3B4) Brilliant Violet 605™ (left), or rat IgG2a, κ Brilliant Violet 605™ isotype control (right).

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 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 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 605™ is a trademark of Sirigen Group Ltd.

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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 binding²⁻⁴, 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](#)
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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.

**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.