SONY

Product Data Sheet

Pacific Blue™ anti-mouse CD23

Catalog # / Size: 1108075 / 25 µg
1108080 / 100 µg

Clone: B3B4

Isotype: Rat IgG2a, κ

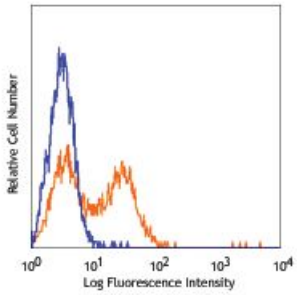
Immunogen: Complex of IgE with Fcε receptor isolated from the mouse B hybridoma cell line O1.2B2

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with Pacific Blue™ under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5



CD57BL/6 mouse splenocytes were stained with CD23 (clone B3B4) Pacific Blue™ (orange histogram), or rat IgG2a, κPacific Blue™(blue 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 ≤ 1.0 µg per 10^6 cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

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.

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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