SONY

# Product Data Sheet

## Alexa Fluor® 700 anti-mouse CD23

**Catalog # / Size:** 1108155 / 25 µg
1108160 / 100 µg

**Clone:** B3B4

**Isotype:** Rat IgG2a, κ

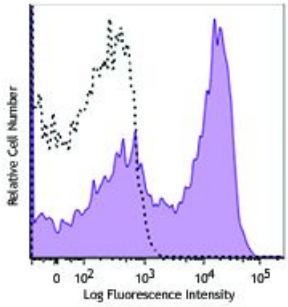
**Immunogen:** Complex of IgE with Fcε receptor isolated from the mouse B hybridoma cell line O1.2B2

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions.

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

**Concentration:** 0.5




C57BL/6 mouse splenocytes were stained with CD23 (clone B3B4) Alexa Fluor® 700 (filled histogram), or rat IgG2a, κ Alexa Fluor® 700 (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 ≤0.06 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 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.



For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.



Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.
Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com