
Product Data Sheet

APC/Fire™ 750 anti-mouse CD23

Catalog # / Size:	1108210 / 100 µg 1108205 / 25 µg	□ C57BL/6 mouse splenocytes were stained with anti-mouse CD45R/B220 FITC and anti-mouse CD23 (clone B3B4) APC/Fire™ 750 (left), or rat IgG2a κ APC/Fire™ 750 isotype control (right).
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 APC/Fire™ 750 under optimal conditions.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide	
Concentration:	0.2 mg/mL	

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.

* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

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](#)

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.