

## Purified anti-mouse CD23 (Maxpar<sup>®</sup> Ready) Antibody

<b>Catalog# / Size</b>	101625 / 100 µg
<b>Clone</b>	B3B4
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	FcεRII, IgE Fc Receptor, BLAST-2, Ly-42, B6
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	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.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Complex of IgE with Fcε receptor isolated from the mouse B hybridoma cell line O1.2B2
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and EDTA.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	1.0 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C.
<b>Application</b>	<a href="#">FC - Quality tested</a> <a href="#">CyTOF<sup>®</sup> - Verified</a>
<b>Recommended Usage</b>	This product is suitable for use with the <a href="#">Maxpar<sup>®</sup> Metal Labeling Kits</a> . For metal labeling using Maxpar <sup>®</sup> Ready antibodies, proceed directly to the step to Partially Reduce the Antibody by adding 100 µl of Maxpar <sup>®</sup> Ready antibody to 100 µl of 4 mM TCEP-R in a 50 kDa filter and continue with the protocol. Always refer to the latest version of Maxpar <sup>®</sup> User Guide when conjugating Maxpar <sup>®</sup> Ready antibodies.
<b>Application Notes</b>	The B3B4 antibody is useful for blocking IgE activity <i>in vivo</i> . Additional reported applications (for the relevant formats) include: immunoprecipitation <sup>1</sup> , immunofluorescence microscopy, <i>in vitro</i> and <i>in vivo</i> blocking of ligand binding <sup>2-4</sup> , immunohistochemical staining of acetone-fixed frozen sections <sup>5</sup> , and spatial biology (IBEX) <sup>7,8</sup> .
<b>Additional Product Notes</b>	Maxpar <sup>®</sup> is a registered trademark of Standard BioTools Inc.
<b>Application References</b>	1. Waldschmidt TJ, <i>et al.</i> 1988. <i>J. Immunol.</i> 140:2148. (IP) 2. Rao M, <i>et al.</i> 1987. <i>J. Immunol.</i> 138:1845. (Block) 3. Oshiba A, <i>et al.</i> 1997. <i>J. Immunol.</i> 159:4056. (Block) 4. Dasic G, <i>et al.</i> 1999. <i>Eur. J. Immunol.</i> 29:2957. (Block) 5. Maeda K, <i>et al.</i> 1992. <i>J. Immunol.</i> 148:2340. (IHC) 6. Craig VJ, <i>et al.</i> 2011. <i>Cancer Res.</i> 71:3616. <a href="#">PubMed</a> 7. Radtke AJ, <i>et al.</i> 2020. <i>Proc Natl Acad Sci U S A.</i> 117:33455-65. (SB) <a href="#">PubMed</a> 8. Radtke AJ, <i>et al.</i> 2022. <i>Nat Protoc.</i> 17:378-401. (SB) <a href="#">PubMed</a>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>RRID</b>	AB_2563731 (BioLegend Cat. No. 101625)

### Antigen Details

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<b>Structure</b>	C-lectin family, type II transmembrane glycoprotein, 45 kD
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<b>Distribution</b>	B cells, follicular dendritic cells
<b>Function</b>	Regulates B cell activation
<b>Ligand/Receptor</b>	IgE, CD19/CD21/CD81
<b>Cell Type</b>	B cells, Dendritic cells
<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	CD Molecules, Fc Receptors
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Barclay A, <i>et al.</i> 1997. The Leukocyte Antigen FactsBook Academic Press.</li> <li>2. Delespesse G, <i>et al.</i> 1992. <i>Immunol. Rev.</i> 125:77.</li> <li>3. Flores-Romo L, <i>et al.</i> 1993. <i>Science</i> 261:1038.</li> </ol>
<b>Gene ID</b>	<a href="#">14128</a>

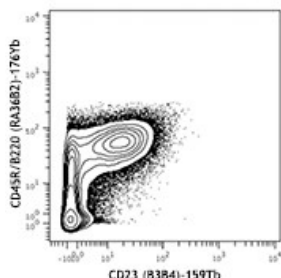
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Biotin anti-mouse CD23, FITC anti-mouse CD23, PE anti-mouse CD23, Purified anti-mouse CD23, Alexa Fluor® 488 anti-mouse CD23, Alexa Fluor® 647 anti-mouse CD23, PE/Cyanine7 anti-mouse CD23, Pacific Blue™ anti-mouse CD23, PerCP/Cyanine5.5 anti-mouse CD23, APC anti-mouse CD23, Brilliant Violet 421™ anti-mouse CD23, Brilliant Violet 510™ anti-mouse CD23, Purified anti-mouse CD23 (Maxpar® Ready), APC/Cyanine7 anti-mouse CD23, Alexa Fluor® 700 anti-mouse CD23, PE/Dazzle™ 594 anti-mouse CD23, TotalSeq™-A0108 anti-mouse CD23, Brilliant Violet 605™ anti-mouse CD23, TotalSeq™-C0108 anti-mouse CD23, APC/Fire™ 750 anti-mouse CD23 Antibody

## Product Data



C57BL/6 mouse splenocytes stained with 176Yb-anti-CD45R/B220 (RA36B2) and 159Yb-anti-CD23 (B3B4). Lymphocytes are displayed in the analysis. Data provided by DVS Sciences.

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