

Brilliant Violet 711™ anti-mouse CD200 (OX2) Antibody

Catalog# / Size	123827 / 50 µg
Clone	OX-90
Regulatory Status	RUO
Other Names	OX-2, MRC
Isotype	Rat IgG2a, κ
Description	CD200 (OX-2 antigen) is a type-1 membrane glycoprotein containing two extracellular Ig-like domains. CD200 a highly conserved type I membrane glycoprotein that is expressed on a variety of cell types including thymocytes, some T cells, endothelial and follicular dendritic cells, B cells, and brain tissue (neurons); but not on NK cells, granulocytes, monocytes, or macrophages. CD200 costimulates T cell proliferation. It may regulate myeloid cell activity in a variety of tissues. CD200 is the ligand for CD200 receptor (CD200R). The CD200 Receptor is restricted to myeloid cells, and it is believed that its engagement with CD200 results in inhibition and/or downregulation of myeloid cell activity. Blocking of CD200/CD200R interactions decreases myeloid cell inhibitory thresholds which results in enhanced immune activation.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Soluble fusion protein of the extracellular region of mouse OX-2 antigen with domains 3 and 4 of rat CD4 fusion protein.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711™ under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 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 711™ is a trademark of Sirigen Group Ltd.

[Learn more about Brilliant Violet™.](#)

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Excitation Laser	Violet Laser (405 nm)
RRID	AB_3683152 (BioLegend Cat. No. 123827)

Antigen Details

Structure	Immunoglobulin (Ig) superfamily
Distribution	Thymocytes, some T cells, endothelial, B cells
Function	Co-stimulatory factor in T cell proliferation
Ligand/Receptor	CD200R

Antigen References	<ol style="list-style-type: none"> 1. Hoek RM, <i>et al.</i> 2000. <i>Science</i> 290:1768. 2. Gorczynski R, <i>et al.</i> 2004. <i>J. of Immunol.</i> 172:7744. 3. Gorczynski L, <i>et al.</i> 1999. <i>J. Immunol.</i> 162:774. 4. Rosenblum MD, <i>et al.</i> 2004. <i>Blood</i> 103:2691. 5. Zhang S, <i>et al.</i> 2004. <i>J. of Immunol.</i> 173:6786. 6. Barclay AN, <i>et al.</i> 2002. <i>Trends Immunol.</i> 23:285.
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Gene ID	4345
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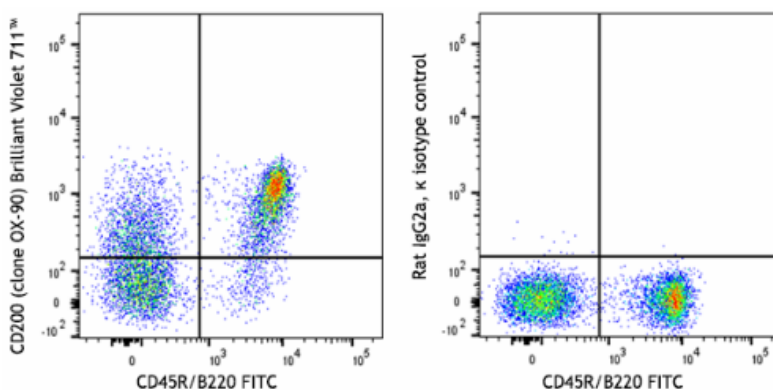
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD200 (OX2), PE anti-mouse CD200 (OX2), APC anti-mouse CD200 (OX2), TotalSeq™-A0079 anti-mouse CD200 (OX2), Alexa Fluor® 647 anti-mouse CD200 (OX2), Alexa Fluor® 594 anti-mouse CD200 (OX2), PE/Dazzle™ 594 anti-mouse CD200 (OX2), PE/Cyanine7 anti-mouse CD200 (OX2), TotalSeq™-B0079 anti-mouse CD200 (OX2), TotalSeq™-C0079 anti-mouse CD200 (OX2), Brilliant Violet 421™ anti-mouse CD200 (OX2), Brilliant Violet 711™ anti-mouse CD200 (OX2)

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD45R/B220 (clone RA3-6B2) FITC and anti-mouse CD200 (OX2) (clone OX-90) Brilliant Violet 711™ (left) or rat IgG2a, κ Brilliant Violet 711™ isotype control (right).

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