

PE/Fire™ 700 anti-human CD200 (OX2) Antibody

Catalog# / Size	399811 / 25 tests 399812 / 100 tests
Clone	A18042B
Regulatory Status	RUO
Other Names	OX-2, OX2
Isotype	Mouse IgG1, κ
Description	CD200, also known as OX2, is a member of the immunoglobulin superfamily (IgSF). It is a monomorphic cell surface glycoprotein that is expressed on thymocytes, neurons, endothelium, follicular dendritic cells in all lymphoid organs, a subset of CD34+ progenitor cells, and at low levels on some smooth muscle and B lymphocytes. It is not expressed on NK cells, monocytes, granulocytes, or platelets. CD200 costimulates T cell proliferation. It may regulate myeloid cell activity in a variety of tissues. The interaction between CD200 (OX2) and CD200 receptor (OX2R) system is of importance in the control of macrophage and granulocyte activation, which may contribute to pathways that suppress and limit macrophage induced inflammatory damage in tissue.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant human CD200
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 PE/Fire™ 700 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * PE/Fire™ 700 has a maximum excitation of 565 nm and a maximum emission of 695 nm.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Clone A18042B antibody is able to completely block the staining of OX-104 antibody, but OX-104 antibody does not completely block the staining of A18042B antibody.
RRID	AB_3683456 (BioLegend Cat. No. 399811) AB_3683456 (BioLegend Cat. No. 399812)

Antigen Details

Structure	Ig superfamily, 80 kD
Distribution	T cells, neurons, endothelium
Function	Costimulates T cell proliferation
Ligand/Receptor	CD200R
Cell Type	Endothelial cells, Neurons, T cells
Biology Area	Cell Biology, Costimulatory Molecules, Immunology, Neuroscience, Neuroscience Cell Markers
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Wright GJ, <i>et al.</i> 2001. <i>Immunology</i>. 102:173. 2. Foster-Cuevas M, <i>et al.</i> 2004. <i>J. Virol.</i> 78:7667. 3. Mason D, <i>et al.</i> 2002. ed. <i>Leukocyte Typing VII</i>. New York:Oxford Univ. Press. 4. Broderick C, <i>et al.</i> 2002. <i>Am. J. Pathol.</i> 161:1669.
Gene ID	4345

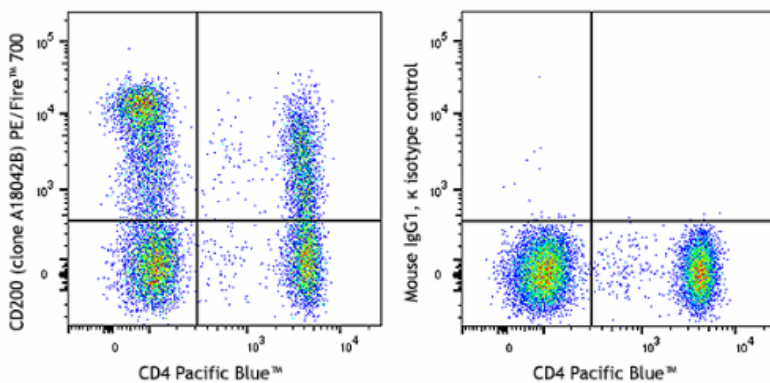
Related Protocols

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

Other Formats

PE anti-human CD200 (OX2), Purified anti-human CD200 (OX2), PE/Cyanine7 anti-human CD200 (OX2) Antibody, APC anti-human CD200 (OX2), TotalSeq™-D1278 anti-human CD200 (OX2), PE/Cyanine7 anti-human CD200, PE anti-human CD200, APC anti-human CD200, PE/Fire™ 700 anti-human CD200 (OX2)

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD4 (clone SK3) Pacific Blue™ and anti-human CD200 (OX2) (clone A18042B) PE/Fire™ 700 (left) or mouse IgG1, κ PE/Fire™ 700 isotype control (right).

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