

PE anti-mouse CD200R3 Antibody

Catalog# / Size	142306 / 100 µg
Clone	Ba160
Regulatory Status	RUO
Other Names	CD200 R3, CD200RLb, OX-2 Receptor 3, CD200 receptor 3
Isotype	Rat IgG2b, κ
Description	CD200R3, also known as CD200RLb and OX-2 Receptor 3, is a disulfide-linked dimeric CD200R-like receptor which belongs to immunoglobulin superfamily. Its positively charged amino acid lysine associates with ITAM- or YxxM motif-bearing adaptor molecules such as DAP12, DAP10, FcRγ, and CD3ζ. CD200R3 functions as an activating receptor to regulate IgE independent immune response.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse primary basophils
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
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.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Ba160 recognizes circulating and bone marrow basophils; it also recognizes a subset of mast cells in the peritoneal cavity and skin. A single intravenous administration of 30 µg of LEAF Ba160 to mice induces a dramatic reduction of basophil number in peripheral blood from day 1 to day 10. *Tested in the development stage.
Product Citations	1. Kamijo S, <i>et al.</i> 2013. J Immunol. 190:4489. PubMed
RRID	AB_10917057 (BioLegend Cat. No. 142306)

Antigen Details

Structure	Immunoglobulin superfamily; disulfide-linked dimer with positively charged amino acids in transmembrane; molecular weight is about ~38 kD or ~74 kD (reduced or non-reduced condition, respectively).
Distribution	Basophils in peripheral blood, bone marrow, spleen; mast cells in peritoneal cavity and skin.

Function	Transduce stimulatory signals.
Interaction	DAP12, DAP10, FcR γ , or CD3 ζ
Cell Type	Basophils, Mast cells
Biology Area	Immunology, Inhibitory Molecules
Molecular Family	CD Molecules
Antigen References	1. Voehringer D, <i>et al.</i> 2004. <i>J. Biol. Chem.</i> 52:54117. 2. Kojima T, <i>et al.</i> 2007. <i>J. Immunol.</i> 179:7093. 3. Sato K, <i>et al.</i> 2009. <i>Blood</i> 113:4780.
Gene ID	74603

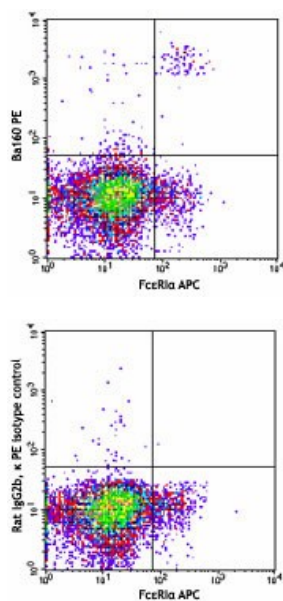
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD200R3, PE anti-mouse CD200R3

Product Data



C57BL/6 peripheral blood leukocytes were stained with Fc ϵ RI α APC and CD200R3 (clone Ba160) PE (top) or rat IgG2b, κ PE isotype control (bottom).

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587