

## PE/Cyanine7 anti-mouse CD200R3 Antibody

<b>Catalog# / Size</b>	142211 / 25 µg 142212 / 100 µg
<b>Clone</b>	Ba13
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	CD200 R3, CD200RLb, OX-2 Receptor 3, CD200 receptor 3
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	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

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Mouse primary basophils
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.
<b>Concentration</b>	0.2 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is = 0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Application Notes</b>	Ba13 recognizes circulating and bone marrow basophils; it also recognizes a subset of mast cells in the peritoneal cavity and skin. Additional reported applications (for the relevant formats) include: stimulation of bone marrow derived basophils to produce IL-4.
<b>Product Citations</b>	1. Wang F, <i>et al.</i> 2021. Cell. 184(2):422-440.e17. <a href="#">PubMed</a>
<b>RRID</b>	AB_2814045 (BioLegend Cat. No. 142211) AB_2814046 (BioLegend Cat. No. 142212)

### Antigen Details

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<b>Structure</b>	Immunoglobulin superfamily; disulfide-linked dimer with positively charge amino acids in transmembrane; molecular weight is about ~38 kD or ~74 kD (reduced or non-reduced conditions, respectively)
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<b>Distribution</b>	Basophils in peripheral blood, bone marrow, spleen; mast cells in peritoneal cavity and skin
<b>Function</b>	Transduce stimulatory signals
<b>Interaction</b>	DAP12, DAP10, FcR $\gamma$ , or CD3 $\zeta$
<b>Cell Type</b>	Basophils, Mast cells
<b>Biology Area</b>	Immunology, Inhibitory Molecules
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Voehringer D, <i>et al.</i> 2004. <i>J. Biol. Chem.</i> 279:54117.</li> <li>2. Kojima T, <i>et al.</i> 2007. <i>J. Immunol.</i> 179:7093.</li> <li>3. Sato K, <i>et al.</i> 2009. <i>Blood</i> 113:4780.</li> </ol>
<b>Gene ID</b>	<a href="#">74603</a>

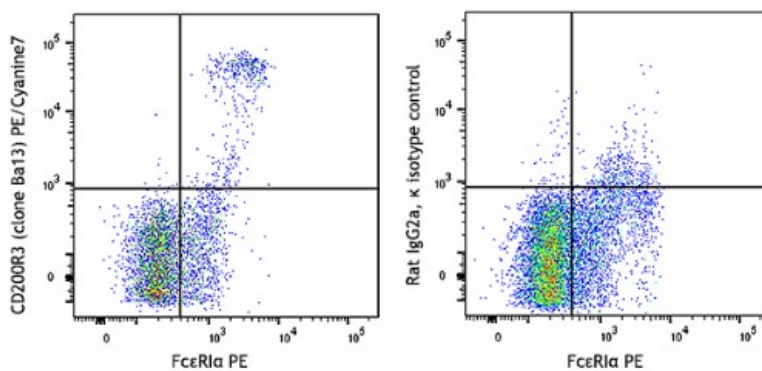
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-mouse CD200R3, PE anti-mouse CD200R3, APC anti-mouse CD200R3, TotalSeq™-A0809 anti-mouse CD200R3, PerCP/Cyanine5.5 anti-mouse CD200R3, PE/Cyanine7 anti-mouse CD200R3, Ultra-LEAF™ Purified anti-mouse CD200R3

## Product Data



BALB/c mouse peripheral blood leukocytes were stained with Fc $\epsilon$ R1a PE and CD200R3 (clone Ba13) PE/Cyanine7 (left) or Rat IgG2a,  $\kappa$  isotype control (right).

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