

#### DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse CD200R1L in direct ELISAs.
<b>Source</b>	Recombinant Monoclonal Rabbit IgG Clone # 2692A
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived mouse CD200R1L Ile25-Thr220 Accession # Q6XJV6.1
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	HEK293 human embryonic kidney cell line transfected with mouse CD200R1L and eGFP

#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### BACKGROUND

CD200 Receptor 2 (CD200R2), or CD200R1L, is a type I transmembrane receptor for the CD200 cell surface glycoprotein. Mature CD200R2 consists of an extracellular domain (ECD) containing an Ig-like V-type domain and an Ig-like C2-type domain, a transmembrane segment and a short cytoplasmic domain. The ECD of mouse CD200R2 shares a 76% and 63% amino acid (aa) identity with the rat and human ECD, respectively. CD200R2 is strongly expressed on resting mast cells but decreased upon activation via FcεR1. It is also observed on monocytes, bone marrow-derived dendritic cells and TH2 cells (1, 2, 4). It has been demonstrated CD200R2 can interact with CD200 (3) and signal through adaptor protein, DAP12, via its lysine residue in the transmembrane region (2). In addition, it has been reported CD200 and CD200R2 interaction alters dendritic cell differentiation and enhances induction of CD4<sup>+</sup>CD25<sup>+</sup>Foxp3<sup>+</sup> regulatory T cells in mouse transplant model (5).

#### References:

1. Wright, G. *et al.* (2003) *J. Immunol.* **171**:3034.
2. Voehringer, D. (2004) *J. Biol. Chem.* **279**(52):54117.
3. Gorczynski, R. *et al.* (2004) *J. Immunol.* **172**:7744.
4. Minas, K. (2006) *Crit Rev Immunol* **26**(3):213.
5. Gorczynski, R. *et al.* (2008) *J. Immunol.* **180**(9):5946.

#### PRODUCT SPECIFIC NOTICES

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