Mouse CD200R1L
Alexa Fluor® 647-conjugated Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2692A
Catalog Number: FAB10198R
100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CD200R1L in direct ELISAs.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2692A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived mouse CD200R1L Ile25-Thr220 Accession # Q6XJV6.1
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	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
Flow Cytometry	0.25-1 µg/10^6 cells	HEK293 human embryonic kidney cell line transfected with mouse CD200R1L and eGFP

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** • 12 months from date of receipt, 2 to 8 °C as supplied.

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 deceased 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 $CD4^+CD25^+Foxp3^+$ 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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