Mouse CD200R1L Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2692A
Catalog Number: MAB10198

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
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

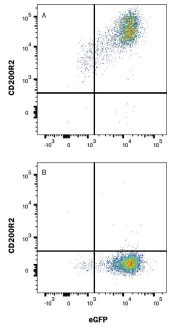
APPLICATIONS

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 µg/10^6 cells	HEK293 human embryonic kidney cell line transfected with mouse CD200R1L and eGFP
Immunohistochemistry	3-25 µg/mL	Immersion fixed paraffin-embedded sections of mouse kidney

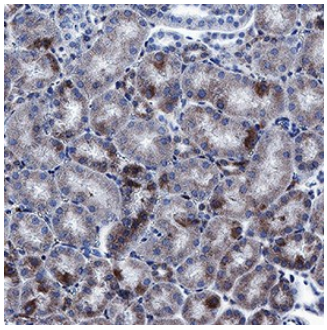
DATA

Flow Cytometry



Detection of CD200R1L in HEK293 Human Cell Line Transfected with Mouse CD200R1L and eGFP by Flow Cytometry HEK293 human embryonic kidney cell line transfected with (A) mouse CD200R1L or (B) irrelevant protein, and eGFP was stained with Rabbit Anti-Mouse CD200R1L Monoclonal Antibody (Catalog # MAB10198) followed by Allophycocyanin-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0111). Quadrant markers were set based on control antibody staining (Catalog # MAB1050). Staining was performed using our Staining Membrane-associated Proteins protocol.

Immunohistochemistry



CD200R1L in Mouse Kidney. CD200R1L was detected in immersion fixed paraffin-embedded sections of mouse kidney using Rabbit Anti-Mouse CD200R1L Monoclonal Antibody (Catalog # MAB10198) at 3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in convoluted tubules. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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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.

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