



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rat Anti-Mouse CD200R

With HRP-conjugated Secondary Antibody

Catalog No.
DS-MB-00481

Target Species
Mouse

Isotype
IgG2a

Preparation

Synonyms: CD200R, CRTR2, MOX2R, OX2R

Purification: Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Immunogen: Fusion protein mCD200RCD4

Specificity

DS-MB-00481 recognizes mouse CD200R, a cell surface glycoprotein (also known as OX2R). In mouse CD200R is expressed primarily by peripheral blood monocytes and neutrophils but also by other leucocytes including T-lymphocytes and mast cells. Studies suggest that CD200-CD200R interaction may be involved in the control of myeloid cellular function.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG - liquid

Buffer Solution: Phosphate buffered saline

Preservative Stabilizers: 0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml

Applications

| Options | YES | NO | Not determined | Recommended Work dilution or concentration |
|----------------|-----|----|----------------|--|
| Flow Cytometry | • | | | 1/25 - 1/50 |
| ELISA | | | • | |

Note: Other applications are not tested yet. Optimal dilutions should be determined.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Secondary Antibody Applications

| Options / Functions | YES | NO | Not determined | Recommended Work dilution or concentration |
|-----------------------------------|-----|----|----------------|--|
| Immunoassay (ELISA, Western blot) | • | | | 1:5,000-1:10,000 |

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life: 18 months from date of dispatch.

References

1. Zhao, J. et al. (2009) Evasion by stealth: inefficient immune activation underlies poor T cell response and severe disease in SARS-CoV-infected mice. *PLoS Pathog.* 5: e1000636.
2. Björck, P. et al. (2011) Plasmacytoid Dendritic Cell Dichotomy: Identification of IFN- α Producing Cells as a Phenotypically and Functionally Distinct Subset. *J Immunol.* 186: 1477-85.
3. Dellacasa-Lindberg, I. et al. (2011) Migratory Activation of Primary Cortical Microglia upon Infection with *Toxoplasma gondii*. *Infect Immun.* 79: 3046-52.
4. Krejsek, J. et al. (2010) Expression of CD200/CD200R regulatory molecules on granulocytes and monocytes is modulated by cardiac surgical operation. *Perfusion.* 25: 389-97.
5. Rijkers, E.S. et al. (2008) The inhibitory CD200R is differentially expressed on human and mouse T and B lymphocytes. *Mol Immunol.* 45: 1126-35.
6. Costello, D.A. et al. (2011) Long Term Potentiation Is Impaired in Membrane Glycoprotein CD200-deficient Mice: A ROLE FOR TOLL-LIKE RECEPTOR ACTIVATION. *J Biol Chem.* 286: 34722-32.

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