



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rat Anti-Mouse CD200

With HRP-conjugated Secondary Antibody

Catalog No.

DS-MB-00461

Target Species

Mouse

Isotype

IgG2a

Preparation

Synonyms: MOX2**Purification:** Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant**Immunogen:** Mouse CD200-rat CD4 fusion protein**Fusion Partners:** Spleen cells from immunized rats were fused with cells of the rat Y3 myeloma cell line

Specificity

DS-MB-00461 recognizes the mouse CD200 cell surface antigen, also known as OX2.

CD200 is expressed by splenic B lymphocytes, follicular dendritic cells, splenic endothelium and by neurons.

Recent studies have suggested that the CD200 - CD200 ligand system is of importance in the control of macrophage and granulocyte activation.

Formulation

Product Type: Monoclonal Antibody**Product Form:** Purified IgG - liquid**Buffer Solution:** Phosphate buffered saline**Preservative Stabilizers:** 0.09% Sodium Azide (NaN_3)**Approx. Protein Concentrations:** IgG concentration 1.0mg/ml

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. This product is photosensitive and should be protected from light.

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.

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



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Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Flow Cytometry (1)	•			
Immunohistology – Frozen (2)	•			
Immunohistology - Paraffin			•	
Immunohistology - Resin			•	
Western Blotting			•	
ELISA	•			

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

(1) Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.

(2) Histology Positive Control Tissue: mouse spleen

Secondary Antibody Applications

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

References

1. Hoek, R.M. *et al.* (2000) Down-regulation of the macrophage lineage through interaction with OX2 (CD200). *Science* 290: 1768-1771.
2. Nathan, C. and Muller, W.A. (2001) Putting the brakes on innate immunity: a regulatory role for CD200. *Nature Immunology* 3: 17-19.
3. Broderick, C. *et al.* (2002) Constitutive retinal CD200 expression regulates resident microglia and activation state of inflammatory cells during Experimental Autoimmune Uveoretinitis. *Am. J. Pathol.* 161: 1699 - 1677.

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