



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rat Anti Mouse MARCO

with HRP-conjugated secondary antibody

Catalog No.
DS-MB-03938

Target Species
Mouse

Isotype
IgG1

Preparation

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

Fusion Partners: Spleen cells from immunized rats were fused with cells of the mouse SP2/0 myeloma cell line.

Immunogen: CHO cells expressing mouse MARCO

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG - liquid

Buffer Solution: Phosphate buffered saline pH7.4

Preservative Stabilizers: 0.09% Sodium Azide (NaN₃)

Approx. Protein Concentration: IgG concentration 0.5 mg/ml

Specificity

DS-MB-03938 recognizes the murine cell surface antigen designated MARCO (Macrophage receptor with collagenous structure), which is a member of the class A scavenger receptor family.

MARCO is expressed by distinct populations of macrophages in the spleen and lymph nodes, but is rapidly induced on macrophages in other tissues (e.g. Liver Kupffer cells) during infection or LPS treatment. ED31 binds to the C-terminal cysteine rich domain of MARCO, and has been shown to block ligand binding.

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 shipment.

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



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Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			• .	
Western Blot			• .	
Flow Cytometry(1)	•			1/25 - 1/50
IHC - Frozen	• .			1/200 - 1/400

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.
(1) Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

References

1. van der Laan, L.J.W. *et al.* (1999) Regulation and functional involvement of macrophage scavenger receptor MARCO in clearance of bacteria *in vivo*. J. Immunol. 162: 939-947.
2. van der Laan, L.J.W. *et al.* (1997) Macrophage scavenger receptor MARCO: *in vitro* and *in vivo* regulation and involvement in the anti-bacterial host defense. Immunol. Letters 57: 203-208.

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