



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rat Anti Human CD210:Azide Free

With HRP-conjugated Secondary Antibody

Catalog No.
DS-MB-00499

Target Species
Human

Isotype
IgG2a

Introduction

Synonyms: IL-10R1

Preparation

Immunogen: Soluble human CDw210a

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

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

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG - liquid

Buffer Solution: Phosphate buffered saline pH7.4

Preservative Stabilizers: None present

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml

Specificity

DS-MB-00499 recognizes human CDw210a, a 90-110kD glycoprotein, also known as Interleukin-10 receptor 1 (IL-10R1). CDw210a is expressed on T cells, NK cells, monocytes and dendritic cells, although surface expression may be low. Recent work has reported an increase in intracellular expression of CDw210a during dendritic cell maturation, but a reduction in surface CDw210a expression (3).

DS-MB-00499 is reported to function as a blocking antibody (1).

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



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Storage

Store at -20°C only. 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

Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			•	
Western Blotting			•	
IHC – Frozen			•	
IHC – Paraffin			•	
Flow Cytometry (1)	•			1/100 - 1/200
Immunoprecipitation			•	
Functional Assays	•			

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. Due to low expression of CDw210a, sensitive staining techniques may be required.

References

1. Liu. Y. *et al.* (1997) The EBV IL-10 homologue is a selective agonist with impaired binding to the IL-10 receptor. *J. Immunol.* 158: 604-613.
2. O'Farrell. A. *et al.* (1998) IL-10 inhibits macrophage activation and proliferation by distinct signaling mechanisms: evidence for Stat3-dependent and -independent pathways. *EMBO J.* 17: 1006-1018.
3. Corinti. S. *et al.* (2001) Regulatory activity of autocrine IL-10 on dendritic cell functions. *J. Immunol.* 166: 4312-4318.
4. Elbim. C. *et al.* (2001) Intracellular pool of IL-10 receptors in specific granules of human neutrophils: differential mobilization by proinflammatory mediators. *J. Immunol.* 166: 5201-5207.

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