



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse Anti-Human Dectin-1

Catalog No.
129-10231

Target Species
Human

Isotype
IgG1

Preparation

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

Immunogen: NIH3T3 cells expressing full length Beta-glucan receptor.

Fusion Partners: Spleen cells from immunized C57BL/6 mice were fused with cells of the murine SP2 myeloma cell line.

Specificity

129-10231 recognizes human Dectin-1, also known as beta-glucan receptor (β GR), a C-type lectin domain family member. It is a major pathogen pattern-recognition receptor that binds beta-glucans, glucose polymers that form cell-wall components or exopolymers of yeasts, fungi and some bacteria. Beta-glucans have also been used experimentally and therapeutically as immunomodulators that enhance resistance to bacterial, yeast, viral and protozoan infections, as well as tumor formation. Dectin-1 also acts as a co-stimulatory molecule on T-cells to induce their proliferation and is necessary for the TLR2-mediated inflammatory response. It is highly expressed on peripheral blood leukocytes and dendritic cells.

Human Dectin-1 has two major (β GR-A and β GR-B) and several minor isoforms. β GR-A and β GR-B differs by the presence and absence, respectively, of a stalk region. 129-10231 recognizes both of these isoforms. This antibody could be used to inhibit receptor function.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG - liquid

Buffer Solution: Phosphate buffered saline pH7.4

Preservative Stabilizers: 0.09% Sodium Azide (NaN_3)

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml

Storage

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

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. 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)	•			1/25 - 1/200
ELISA			•	
Western Blotting			•	

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

References

1. Willment, J. A. *et al.* (2005) The human beta-glucan receptor is widely expressed and functionally equivalent to murine Dectin-1 on primary cells. *Eur. J. Immunol.* 35: 1539-1547.

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