



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet Rat Anti Mouse CD279

Catalog No.
DS-MB-03795

Target Species
Mouse

Isotype
IgG2b

Preparation

Synonyms: PD1

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

Immunogen: PD-1 transferred BHK cells

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 1.0 mg/ml

Fusion Partners: Spleen cells from immunized Sprague Dawley rats were fused with cells of the P3U1 myeloma cell line.

Specificity

DS-MB-03795 recognizes mouse CD279, a 55kD cell surface protein which is a member of the CD28/CTLA-4 family, otherwise known as Programmed Death-1 (PD-1). CD279 is expressed predominantly on activated T- and B- lymphocytes and on a subset of thymocytes.

Studies suggest that CD279, an immunoinhibitory receptor, plays a critical role in peripheral tolerance induction and prevention of autoimmune disease. Two members of the B7 family, B7-H1 (PD-L1) and B7-DC (PD-L2), have been identified as the ligands for CD279.

DS-MB-03795 does not block the binding of both B7-H1-Ig and B7-DC-Ig fusion proteins to PD-1 transfected BHK cells.

**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
Flow Cytometry (1)	.			1/100 - 1/200

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 10⁶ cells or cells or 100ul whole blood.

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

References

1. Matsumoto, K. *et al.* (2004) B7-DC regulates asthmatic response by an IFN-gamma-dependent mechanism. *J. Immunol.* 172: 2530 – 2541.

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