

RayBiotech, Inc.

3607 Parkway Lane suite 200 Norcross,GA 30092 Tel: 770-729-2992, 1-888-494-8555

Fax: 770-206-2393

Website: www.raybiotech.com Email: info@raybiotech.com

Certificate of Analysis and Data Sheet

MOUSE ANTI BOVINE ROTAVIRUS MR STRAIN

With HRP-conjugated Secondary Antibody

Catalog No.Target SpeciesIsotypeDS-MB-02267RatIgG1

Preparation: Purified IgG prepared by affinity chromatography on Protein G from tissue

culture supernatant

Product Type: Monoclonal Antibody

Immunogen: Rat thymocyte membrane glycoprotein

Species Cross Reactivity: Reacts with: Mouse **N.B.** Antibody reactivity and working conditions

may vary between species.

Product Form: Purified IgG - liquid

Buffer Solution: Phosphate buffered saline pH7.2

Preservative Stabilizers: 0.09% Sodium Azide

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml

Fusion Partners: Spleen cells from immunised BALB/c mice were fused with cells of the NS1

mouse myeloma cell line.

Specificity: recognizes a monomorphic determinant of the rat I-A antigen present on B

lymphocytes, dendritic cells, some macrophages and certain epithelial cells. This antibody cross reacts with certain mouse strains of MHC haplotypes k and s. Analysis of recombinant mouse strains showed that the determinants mapped to

the I-A region (1).

This antibody does not react with the BDIX rat strain ⁽⁶⁾.

Expression is polymorphic in mice.

This product is routinely tested in flow cytometry on rat splenocytes.

The products are furnished for LABORATORY RESEARCH USE ONLY.

Not for diagnostic or therapeutic use.



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Flow Cytometry: Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul. Method

sheets are available on request.

Immunohistology: This product does not require antigen retrieval using heat treatment or protein

digestion prior to staining of formalin-fixed paraffin-embedded sections, but results may be enhanced with heat treatment using 0.01M citrate buffer pH6. This clone has also been described reacting with paraffin-embedded material following

PLP fixation (periodate-lysine-paraformaldehyde) (4).

Storage: Store at $+4^{\circ}$ 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.

Recommended Reading:

- 1. McMaster, W. R. and Williams, A. F. (1979) Identification of Ig glycoproteins in rat thymus and purification from rat spleen. Eur. J. Immunol. 9: 426-433.
- 2. Fernandez, J. L. and Weeks, M. (1986) Genetic monitoring of inbred strains of mice using monoclonal antibodies to major histocompatibility haplotypes and lymphocyte alloantigens. Lab. Anim. 20: 293-297.
- 3. Charteris, D. G. and Lightman, S. L. (1993) In vivo lymphokine production in experimental autoimmune uveoretinitis. Immunology. 78: 387-392.
- 4. Whiteland, J. L. *et al.* (1995) Immunohistochemical detection of T-cell subsets and other leucocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies. J. Histochem. Cytochem. 43: 313-320.
- 5. McKechnie, N. M. *et al.* (1997) Immunization with the cross-reactive antigens Ov39 from *Onchocerca volvulus* and hr44 from human retinal tissue induces ocular pathology and activates retinal microglia. J. Infect. Dis. 176: 1334-1343.
- 6. Male, D. K. *et al.* (1987) Serological evidence for a defect in RT1. B (I-A) expression by the BDIX rat strain. J. Immunogenet. 14: 301-312.
- 7. Burrows, G. G. *et al.* (1998) Two-domain MHC class II molecules form stable complexes with myelin basic protein 69-89 peptide that detect and inhibit rat encephalitogenic T cells and treat experimental autoimmune encephalomyelitis. J. Immunol. 161: 5987-5996.



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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 Blotting	•			
Immunohistology - frozen	•			
Immunohistology – paraffin (1)	•			1/50 - 1/100
Immunohistology - resin				
Immunoprecipitation				
Flow Cytometry				1/50 - 1/100
Immunofluorence staining				
Neutralization				

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

Secondary Antibody Applications

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