



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet

## Mouse Anti-St. Louis Encephalitis Virus

### With HRP-conjugated Secondary Antibody

**Catalog No.**  
DS-MB-02314

**Target Species**  
Viral

**Isotype**  
IgG2a

### Preparation

**Immunogen:** Purified SLE strain MSI-7.

**Fusion Partners:** Spleen cells from immunised mice were fused with cells of the SP2/0 Ag 14 myeloma cell line

### Specificity

DS-MB-02314 recognizes the Saint Louis Encephalitis virus strain (MSI-7) envelope glycoprotein. SLE is a flavivirus producing severe encephalitis in humans. The viral envelope contains a single glycoprotein serving as a major structural component of the virion spike. The antibody cross reacts with other SLE strains and related flaviviruses as determined by immunofluorescence and haemagglutination assays (Roehrig *et al.*).

### Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG - liquid

**Buffer Solution:** Phosphate buffered saline

**Preservative Stabilizers:** 0.09% Sodium Azide (NaN<sub>3</sub>)

**Approx. Protein Concentrations:** IgG concentration 1.0 mg/ml

### Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunohistology - Frozen			•	
Immunohistology - Paraffin			•	
ELISA	•			
Immunofluorescence	•			

**Note:** Other applications are not tested yet. Optimal dilutions should be determined.

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



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### Secondary Antibody Applications

<div>Options</div> <div>Functions</div>	YES	NO	Not determined	Recommended Work dilution or concentration
	•			1:5,000-1:10,000

### 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.

### Reference

1. Roehrig, J.T. *et al.* (1983) Identification of epitopes on the E glycoprotein of Saint Louis encephalitis virus using monoclonal antibodies. *Virology*. 128: 118-126.
2. Vorndam V *et al.* (1993) Molecular and biological characterization of a non-glycosylated isolate of St Louis encephalitis virus. *J Gen Virol*. 74: 2653-2660.
3. Mathews, J.H. and Roehrig, J.T. (1984) Elucidation of the topography and determination of the protective epitopes on the E glycoprotein of Saint Louis encephalitis virus by passive transfer with monoclonal antibodies. *J Immunol*. 132: 1533-1537

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