



## 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](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

### Certificate of Analysis and Data Sheet

## Mouse Anti Dengue Virus With HRP-conjugated Secondary Antibody

**Catalog No.**  
DS-MB-01159

**Target**  
Viral

**Isotype**  
IgG2a

### Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

### Specificity

DS-MB-01159 recognizes all four dengue virus serotypes (DEN-1, DEN-2, DEN-3 and DEN-4) of the genus *Flavivirus*.

The dengue virus is responsible for the tropical and sub-tropical diseases, dengue (DF) and dengue haemorrhagic fever (DHF), transmitted to individuals through the bite of the *Aedes* mosquito. The global distribution of dengue is expanding and comparable to that of malaria, with symptoms ranging from a mild viral syndrome of high fever, rash, headache, fatigue and muscle and joint pain, to the more severe and sometimes fatal DHF. Each dengue virus serotype is antigenically distinct, such that infection only provides an individual with immunity to the causative serotype, with the possibility of further infection by a different serotype or even multiple serotypes.

DS-MB-01159 detects an anti-E/envelope specific band of 61kDa under reducing conditions in Western blotting. A weak secondary band of 80kDa may also be apparent.

**Immunohistology:** \*This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH6.0 is recommended for this purpose.

### Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG – liquid

**Buffer Solution:** Phosphate buffered saline pH7.2

**Preservative & Stabilizers:** 0.05% Sodium Azide (NaN<sub>3</sub>)

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

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Not for diagnostic or therapeutic use.**



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### 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.

### Applications

**Table Summary of antibody applications and working conditions**

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Western Blotting	•			reducing
ELISA	•			
Immunohistology - frozen			•	
Immunohistology – paraffin (1)	•			
Immunohistology - resin			•	
Immunoprecipitation			•	
Immunofluorescence staining			•	
Flow Cytometry			•	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.  
(1) special conditions apply - see Immunohistology\*.

### Secondary Antibody Applications

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

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### **References**

1. Gubler, D.J. (1998) Dengue and Dengue Hemorrhagic Fever. *Clin. Micro. Rev.* 11: 480-496.
2. Philip Samuel, P. and Tyagi, B.K. (2006) Diagnostic methods for detection & isolation of dengue viruses from vector mosquitoes. *Indian J. Med. Res.* 123: 612-628.
3. Lorono-Pino, M.A. *et al.* (1999) Common occurrence of concurrent infections by multiple dengue virus serotypes. *Am. J. Trop. Med. Hyg.* 61: 725-730.

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