



RayBiotech, Inc.

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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 (NaN₃)

Approx. Protein Concentrations: IgG concentration 1.0mg/ml

**The products are furnished for LABORATORY RESEARCH USE ONLY.
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

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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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