

Antibody Datasheet

Name: Mouse anti Mayaro Virus E1 (M953)

Product Code: MAB12327-100 / MAB12327-500

Batch #:

Date of Manufacture:

Product Description: Mouse monoclonal antibody specific for Mayaro Virus glycoprotein E1, strain Acre27 (M953)

Clone Number: M953

Isotype: IgG2a

Amount: 0.1 mg / 0.5 mg

Concentration: mg/ml

Purity: >95%

Presentation: Liquid

Buffer: PBS pH7.2

Preservative: 0.05% Sodium Azide (NaN₃)

Purification: Purified by Ion Exchange.

Specificity: This antibody is specific for Mayaro virus (MAYV) E1 and detects MAYV VLP in ELISA and Western blot. It does not cross-react with MAYV E2, Chikungunya virus (CHIKV) VLP, CHIKV E1, CHIKV E2, O'nyong'nyong virus (ONNV) VLP or Ross River virus (RRV) VLP.

Matched Pairs: Suggested matched antibody pairs include MAB12326 for capture paired with MAB12324 for detection. We also suggest MAB12324 for capture paired with MAB12325, MAB12326 or MAB12327 for detection.

Applications: Suitable for use in immunoassay development or other applications.

Usage Guidelines

Short Term Storage: +4°C

Long Term Storage: -20°C

Storage Guidelines: Multiple freeze/thaw cycles are to be avoided. Antibody is shipped at ambient temperature.



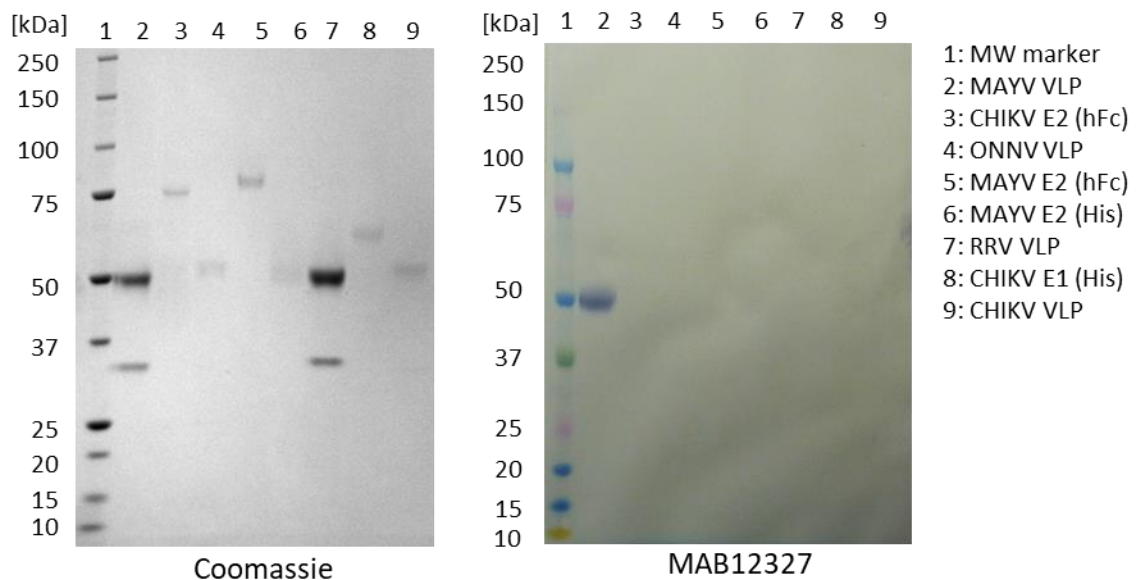
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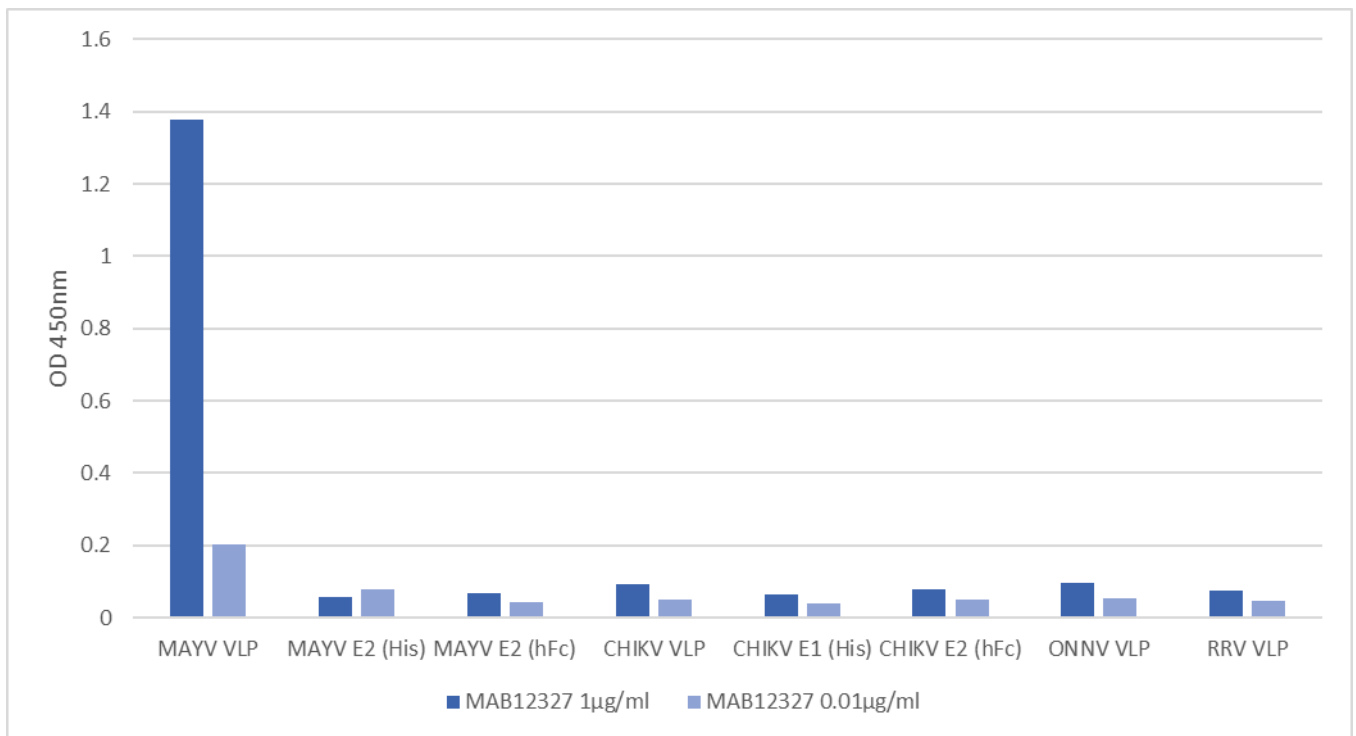
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Western Blot: 100ng of each antigen was used for SDS-PAGE, in reduced form. Proteins were transferred using Transblot for 7 minutes at 25V. 5% dry milk in PBS-T was used as blocking buffer and dilution buffer for antibodies. Primary antibodies are given below, and goat anti-mouse-IgG-HRP secondary antibody (Biorad 103005) was used at 1:1000. All steps were carried out for 1h at room temperature with gentle rocking. KPL Membrane TMB was used for detection. Development time 1 min.



Antibody was specific for Mayaro virus-like particles (Lane 2; MAYV VLP) containing E1 protein. MAYV VLP contains capsid protein (~29kDa), Spike glycoprotein E2 (~47kDa) and Spike glycoprotein E1 (~48kDa). It did not cross-react with MAYV E2 (Lane 5; human Fc-tag, Lane 6; His-tag), Chikungunya virus VLP (Lane 9; CHIKV) or E1 (Lane 3; human Fc-tag, Lane 8; His-tag), O'nyong nyong virus VLP (Lane 4; ONNV) and Ross River virus VLP (Lane 7; RRV).

ELISA: Plate was coated with 0.5µg/ml of antigens in 1X DPBS overnight at 2-8°C followed by blocking for 1.5 h using 1%BSA/DPBS.300µl/well. Plate was then washed 3X using Tris wash buffer. 100µl of antibody dilution was added and plate incubated for 2h at RT, 800rpm. Plate was then washed 3X using Tris wash buffer. 100µl of Goat anti mouse IgG HRP antibody (1:5000 dilution) was added to all the wells and incubated for 1h at RT, 800rpm. Plate was washed 4X using Tris wash buffer and 100µl HKTMB added and incubated for ~2 min. at RT. 100µl 1M HCl was then added to stop the reaction and plate was read at 450nm.



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QC



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Products are for Research Use or for Further Manufacturing Use only. Not for Diagnostic or Therapeutic Use.

