Langford Locks
Kidlington
Oxford
OX5 1LH
United Kingdom
Tel: +44 (0)1865 595230

Antibody Datasheet

Product Name: Mouse anti Mayaro Virus E1

Clone number: M950

Isotype: Mouse IgG1

Product code: MAB12324-100
MAB12324-500

Batch Number:

Amount: 0.1mg

Concentration: 1 mg/ml

Buffer: Phosphate Buffered Saline pH7.2

Preservative: 0.05% Sodium Azide (NaN_3)

Purity: Purified by Ion Exchange. >90% purity by SDS-PAGE.

Antigen: Recombinant Mayaro Virus E1 antigen, Strain Acre27.

Specificity: This antibody 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 and Ross River virus (RRV) VLP. See data below.

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: For Research Use Only. Not intended for diagnostic use. Suitable for use in immunoassay development or other applications.

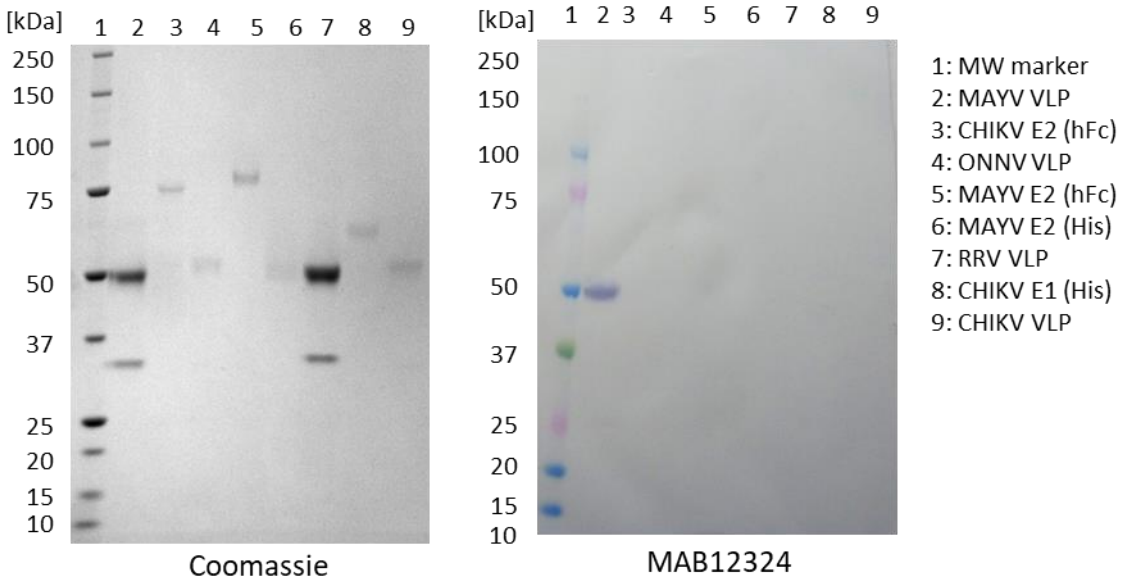
Secondary reagents: Goat anti mouse IgG:HRP (PAB21441HRP)
PanBlock ELISA Blocking Buffer (BUF81201)

Storage: Store at +4^{0}C for up to three months, or at -20^{0}C for longer.

The Antibody is shipped at ambient temperature.
Avoid repeated freeze/thaw cycles.

Western Blot

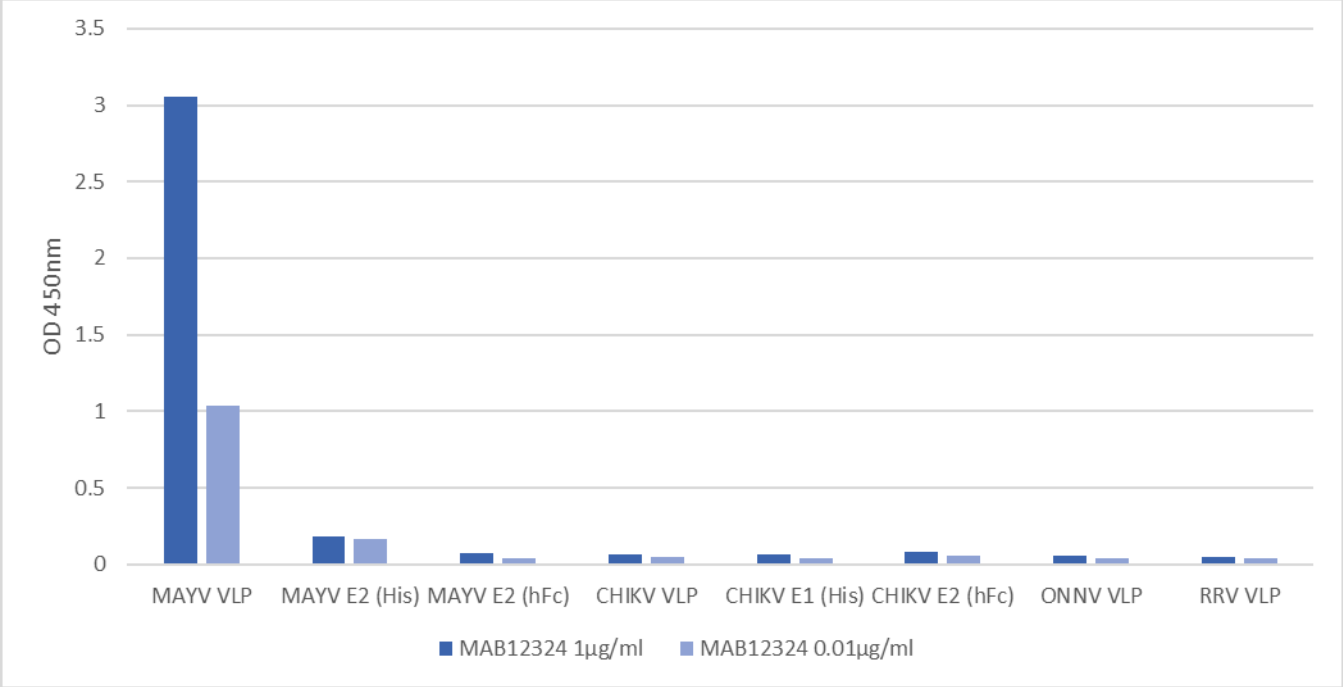
100ng of each antigen was used for SDS-PAGE, in reduced form. Proteins were transferred using Transblot for 7 minutes at 25V. 5% dry milk in PBS-T was used as blocking buffer and dilution buffer for antibodies. Primary antibodies are given below, and goat anti-mouse-IgG-HRP secondary antibody (Biorad 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 VLP), CHIKV E2 (Lane 3; human Fc-tag) or CHIKV E1 (Lane 8; His-tag), O'nyong nyong virus VLP (Lane 4; ONNV VLP) and Ross River virus VLP (Lane 7; RRV VLP).

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.



Antibody was specific for Mayaro virus-like particles (MAYV VLP) containing E1 protein. It did not cross-react with MAYV E2 protein (His-tag or human Fc-tag), Chikungunya virus VLP (CHIKV VLP), E1 protein (His-tag) or E2 protein (human Fc-tag), O'nyong nyong virus VLP (ONNV VLP) and Ross River virus VLP (RRV VLP).