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Antibody Datasheet

Product Name: Mouse anti-Chikungunya virus VLP antibody

Clone number: EB6-2-B6-F5

Isotype: Mouse IgG

Product code: MAB12314-100
MAB12314-500

Batch Number: M-NAC-9D

Immunogen: An equal mix of Chikungunya, Mayaro and O'nyong'nyong VLPs (comprising E1, E2 and capsid proteins), produced in HEK293 cells and available from the Native Antigen Company here.

Amount: 100µg
500µg

Concentration: 1.0 mg/ml

Buffer: Phosphate Buffered Saline pH7.4

Preservative: None present. 0.2µm filtered.

Fusion partners: Spleen cells from immunised Balb/c mice were fused with cells from the SP2/0-Ag14 myeloma cell line.

Purification: Antibody was purified from hybridoma cell culture supernatant by affinity chromatography on Protein G

Specificity: This antibody recognises Chikungunya virus VLP and E2 protein. It also cross-reacts with Mayaro virus VLPs and E2 proteins in ELISA. It shows no cross-reactivity with O'nyong'nyong virus or Ross River virus VLPs. It recognises VLPS for CHIKV, MAYV, ONNV and RRV in non-reduced western blot. Antibody not suitable western blot in reducing conditions.

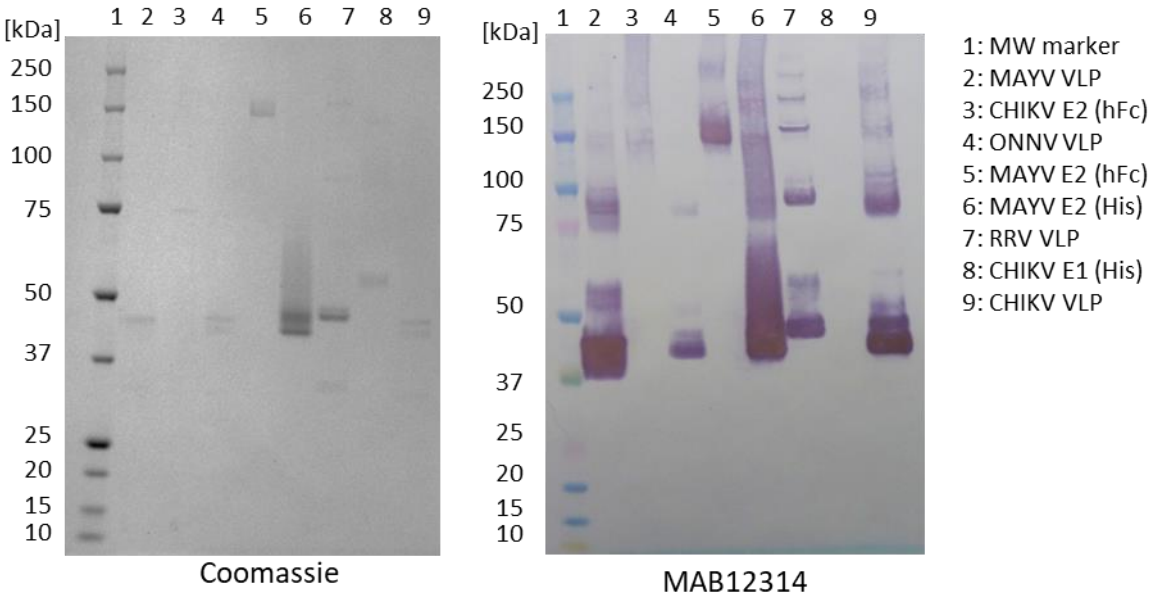
Applications: WB (non-reducing), ELISA

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

Storage: Store at +4˚C for up to one week, or at -20˚C for longer periods
For long term storage at +4˚C the addition of 0.09% w/v sodium azide is recommended.
The antibody is shipped at ambient temperature.
Avoid repeated freeze/thaw cycles.

Western Blot (non-reducing conditions)

100ng of each antigen was used for SDS-PAGE, in non-reduced form. Proteins were transferred using Transblot for 7 min. at 25V. 5% dry milk in PBS-T was used as blocking buffer and dilution buffer for antibodies. Primary antibody (MAB12314) and goat anti-mouse-IgG-HRP secondary antibody (Biorad 103005) were 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 30 sec.



ELISA

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