The Native Antigen Company
LGC Unit 3
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Antibody Datasheet

Name: Mouse anti ZIKA VLP antibody (IG3)

Product Code: MAB12311-100 / MAB12311-500

Batch #: 19050110

Date of Manufacture: 01-MAY-2019

Product Description: Mouse monoclonal antibody specific for Zika virus VLP (clone IG3).

Clone Number: IG3-1-A12-G9

Isotype: IgG

Amount: 0.1 mg / 0.5 mg

Concentration: 1.0 mg/ml

Purity: >95%

Presentation: Liquid

Buffer: PBS pH7.4

Preservative: None present. 0.2 μ m filtered.

Immunogen: Recombinant Zika virus VLPs (comprising envelope, pre-membrane and membrane proteins), produced in HEK293 cells and available from the Native Antigen Company here.

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

Specificity: This antibody recognises Zika virus VLPs and envelope protein. In ELISA it also shows cross-reactivity with VLPs and envelope proteins from Dengue virus (DENV), West Nile virus, Japanese Encephalitis virus and Chikungunya virus. It recognises recombinant His-tagged DENV envelope proteins produced in both mammalian and insect cells. Fc-tagged envelope proteins may not be detected in ELISA. See data below. In non-reduced Western blot antibody detects ZIKV Env and VLP. Antigens were not detected in reduced conditions. See data below.

Applications: WB (non-reduced), ELISA

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Usage Guidelines

Short Term Storage: +4ºC

Long Term Storage: -20ºC

Storage Guidelines: The antibody is shipped at ambient temperature. Avoid repeated freeze/thaw cycles. Addition of 0.09% w/v sodium azide is recommended for long-term storage at +4ºC.

Western Blot (non-reduced): 100ng of each antigen was used for SDS-PAGE, in non-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 30 seconds.

Lanes are (1) MW marker, (2) ZIKV Env, (3) JEV Env, (4) WNV Env, (5) DENV1 (HEK293), (6) DENV2 Env (HEK293), (7) DENV3 Env (HEK293), (8) DENV4 Env (HEK293), (9) DENV1 Env (insect), (10) DENV2 Env (insect), (11) DENV3 Env (insect), (12) DENV4 Env (insect), (13) CHIKV E1, (14) CHIKV E2, (15) YFV Env, (16) YFV Env, (17) CHIKV VLP, (18) DENV1 VLP, (19) DENV2 VLP (20) DENV3 VLP, (21) DENV4 VLP, (22) ZIKV VLP, (23) JEV VLP, (24) TBEV Env.

Coomassie

MAB12311

1: MW marker
2: ZIKV Env
3: JEV Env
4: WNV Env
5: DENV1 (HEK293)
6: DENV2 Env (HEK293)
7: DENV3 Env (HEK293)
8: DENV4 Env (HEK293)
9: DENV1 Env (insect)
10: DENV2 Env (insect)
11: DENV3 Env (insect)
12: DENV4 Env (insect)
13: CHIKV E1
14: CHIKV E2
15: YFV Env
16: YFV Env
17: CHIKV VLP
18: DENV1 VLP
19: DENV2 VLP
20: DENV3 VLP
21: DENV4 VLP
22: ZIKV VLP
23: JEV VLP
24: TBEV Env

ELISA: assay was carried out as descried below;
Plate coating: All antigens (virus-like particles, VLP) coated at 0.5µg/ml at RT in DPBS for an hou
Plate blocking: Plate washed 1 X 300µl/well TBS + 0.1% Tween20, blocked 300µl/well DPBS+1% BSA overnight at 2-8C. Plate washed 3 X 300ul/well TBS-T wash buffer.
Detection antibody: Antibody diluted to 1.0µg/ml and 0.01µgml in DPBS + 1% BSA + 0.05% T20. Added at 100ul/well, incubated shaken 2h room temperature. Plate washed 3 X 300µl/well TBS-T wash buffer.

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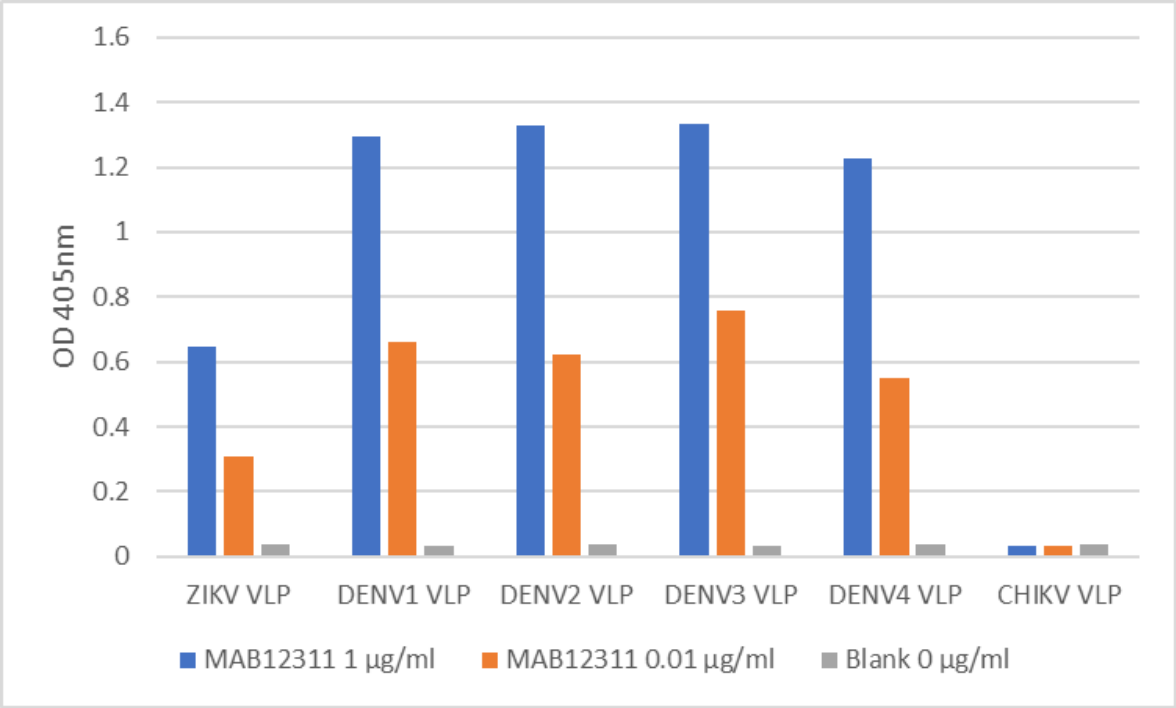
Secondary antibody: Biorad goat anti-mouse IgG-HRP (103005) diluted 1 in 2500 in DPBS/1%BSA/0.05%T20, added at 100µl/well, incubated shaken 1h room temperature. Plate washed 6X 300µl/well TBS-T wash buffer.
Detection: Europa TMB substrate added at 100µl/well and the plate developed for 5 min. static on the bench.
Stop: Reaction stopped with 100µl/well 1M HCL and the plate was read within 5 min. at 405nm.



ELISA: assay was carried out as descried below;
Plate coating: All antigens (envelope proteins, ENV) coated at 0.5µg/ml at RT in DPBS for an hour.
Plate blocking: Plate washed 1 X 300µl/well TBS + 0.1% Tween20, blocked 300µl/well DPBS+1% BSA for 1h. Plate washed 3 X 300ul/well TBS-T wash buffer.
Detection antibody: Antibody diluted to 1.0µg/ml and 0.01µgml in DPBS + 1% BSA + 0.05% T20. Added at 100µl/well, incubated shaken 1h room temperature. Plate washed 3 X 300µl/well TBS-T wash buffer.
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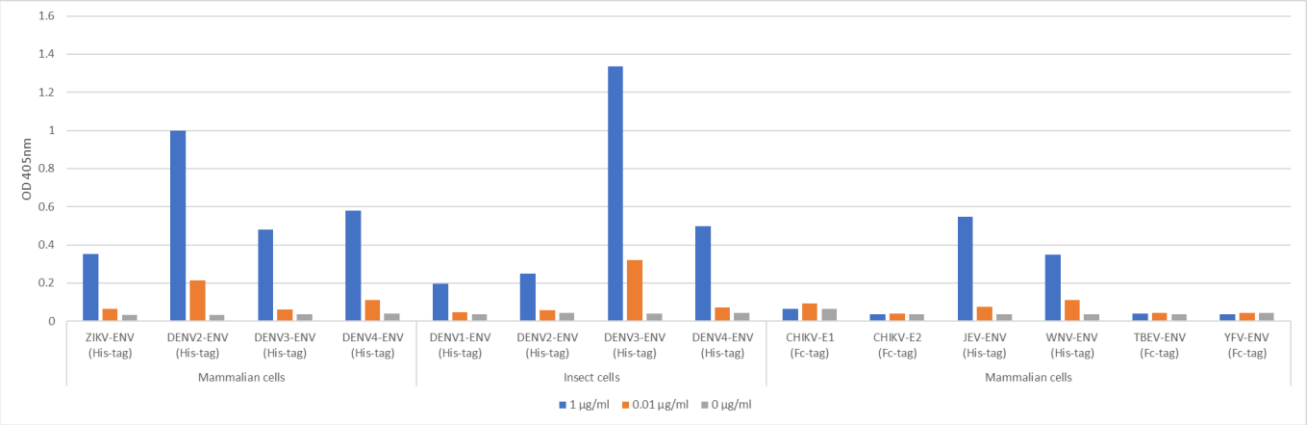

03/04/2025

X

QC
Signed by: Tracy.Pullen@lgcgroup.com

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QA
Signed by: Estelle.Tressens@LGCGroup.com

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