

Zika Virus Western Blot Strips: Strain – MR766

Catalog Number: 0801022

BACKGROUND:

Zika Virus (ZIKV) was first discovered from a Rhesus Monkey in the Zika forest of Uganda in 1947. More recently, there have been outbreaks in Southeast Asia, the Pacific Islands and the Americas. ZIKV has caused a global health concern since infections have been linked to cases of Guillain-Barré syndrome and birth defects. There are two lineages of the virus: The African, and the Asian lineage. Phylogenetic studies indicate that the virus spreading in the Americas is most closely related to the Asian lineage. ZIKV is a member of the virus family *flaviviridae* and the genus flavivirus transmitted by mosquitoes. It is related to the dengue, yellow fever, Japanese encephalitis, and West Nile viruses. The virus produces 3 structural (capsid [C], pre-membrane [prM], envelope [E]) and 7 non-structural proteins (including NS1). Studies from other flaviviruses demonstrate an immune response primarily targets the prM, E and the secreted NS1 proteins.

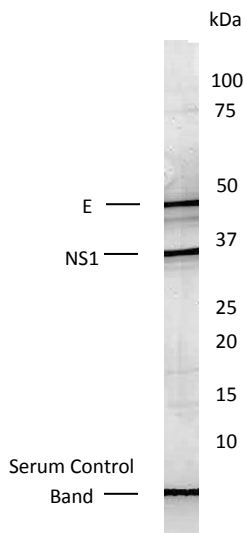
PRODUCT CHARACTERISTICS:

- Composition:** Derived from electroblotting detergent disrupted ZIKV infected cells separated by SDS polyacrylamide gel electrophoresis under non-reducing conditions to preserve conformational epitopes. Strips contain a control band of goat anti-human IgG that reacts when human or non-human primate IgG antibodies are present to control for sample addition. Mouse IgG antibodies will also yield a weak reaction to the control band.
- Source:** ZIKV strain MR766 (African Lineage: Accession No. KU720415) from infected Vero cells (kidney epithelial, African Green Monkey).
- Specificity:** Reactive to Zika antibodies. Likely cross-reactive to other Flavivirus antibodies.

CONTENTS: One tube of 10 nitrocellulose strips.

STORAGE: Store at 2-8°C. Keep tightly capped. Allow tube to reach room temperature before opening.

RECOMMENDED USAGE: Test the reactivity of antibody sera at a 1:100-10,000 dilution. Test reactivity of monoclonal antibodies from 0.5-50 µg/mL.



Nitrocellulose strips were incubated with a 1:100 dilution of a strongly reactive human specimen positive for Zika antibodies. An alkaline phosphatase-conjugated goat anti-human IgG was used as a secondary antibody and NBT/BCIP as substrate solution to develop the signal.

REFERENCES: Pierson and Graham (2016), Zika Virus: Immunity and Vaccine Development. Cell 167, 625-631.

This product is intended for research, product development, quality assurance or manufacturing use. Not for use in the screening, diagnosis or prognosis of disease. Although the virus proteins have been inactivated, handle strips and specimens as if capable of transmitting infection. There are no assurances that products derived from infectious sources will not transmit infectious agents.

This product was manufactured in a facility which has a Quality Management System that is ISO 13485 certified.

REF	Catalog Number		Temperature Limitation
LOT	Batch Code		Expiration Date
RUO	For Research Use Only		Biological Risk

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