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Zika Pr (C) Antibody, Rabbit Polyclonal

Cat#: R3771-2

Quantity: 100 ul

Predicted | Observed M.W.: 11 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: Q3Z2E1

Background:

The Zika virus (ZIKV) belongs to the *Flaviviridae* family of RNA viruses, and is related to the dengue, yellow fever, Japanese encephalitis, and West Nile viruses. Zika virus can be transmitted by mosquitoes. Like other flaviviruses, Zika virus is enveloped and has a nonsegmented, single-stranded, 10 kb positive-sense RNA genome. A positive-sense RNA genome can be directly translated into viral proteins. As in other flaviviruses, the RNA genome encodes seven nonstructural proteins (NS1, NS2A, NS2B, NS3 NS4A, NS4B and NS5), and three structural proteins (capsid protein C, membrane protein M and envelope protein E). One of the structural proteins, the flavivirus envelope glycoprotein E, encapsulates the virus; and it also binds to the endosomal membrane of the host cell to initiate endocytosis. The RNA genome forms a nucleocapsid along with copies of the 12-kDa capsid protein C. The nucleocapsid, in turn, is enveloped within a host-derived membrane modified with two viral glycoproteins. Viral genome replication depends on the making of double stranded RNA from the single stranded positive sense RNA [ssRNA(+)] genome, followed by transcription and replication to provide viral mRNAs and new ssRNA(+) genomes.

Zika virus precursor membrane protein prM can be cleaved by host furin to form secreted peptide Pr and membrane protein M. Zika virus peptide Pr is secreted, which prevents premature fusion activity of envelope proteins in trans Golgi by binding to envelope protein E at pH6.0. After virion release in extracellular space, Pr gets dissociated from E dimers.

Other Names:

peptide Pr, peptide precursor

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of Zika virus (strain Mr 766) peptide Pr. Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Zika virus

For research use only. Not for therapeutic or diagnostic purposes.
Abiocode, Inc., 29397 Agoura Rd., Ste 106, Agoura Hills, CA 91301

Tested Applications:

WB: 1:500-1:2,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Product Data:

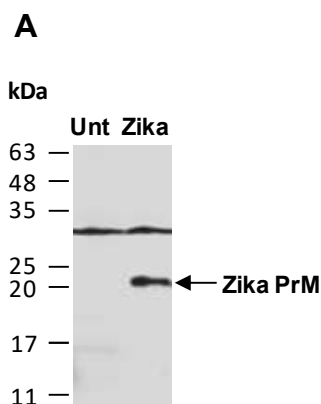


Fig 1. Western blot analysis of equal amounts of protein extracts from human lung epithelial A549 cells uninfected (unt) or infected with Zika virus (Zika), using anti-Zika Pr (C)(R3771-2) at RT for 2 h. Zika PrM protein detected by this antibody is a precursor protein that is cleaved to form secreted peptide Pr (11 kDa) and membrane protein M (9 kDa).