Anti-Zika virus(ZIKV)(strain Zika SPH2015) ZIKV-E/Envelope protein(Domain III) Monoclonal Antibody

catalog number: **E-AB-V1334**

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Zika Virus
Immunogen	Recombinant ZIKV (strain Zika SPH2015) Envelope protein (Domain III, His Tag)
Host	Rabbit
Isotype	Rabbit IgG
Clone	033
Purification	Protein A affinity purification
Conjugation	Unconjugated
Buffer	0.2 μm filtered solution in PBS.

Applications	Recommended Dilution
ELISA	1:1000-10000

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze/thaw cycles.
Shipping	The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended.

Background

Envelope of Zika virus is resposible for receptor binding and membrane. Analysis of the envelope protein of Zika, from Brazilian Zika SPH215 (KU321639), indicates predicted B and T cell epitopes in peptides that are consistent to those reported for dengue, YFYF and Japanese encephalitis. The envelope Domain II B cell epitope, to which much dengue non-neutralizing cross reaction is attributed, is also conserved also in Zika virus, consistent with prior field observations of cross reactivity with dengue and YF. Domain III of the Zika envelope protein, likely the main specific neutralizing domain, is distinct from recent Brazilian dengue isolates and a recent Peruvian YF isolate (GQ379163), 76% of possible major histocompatibility complex class (MHC) I and MHC II binding peptides and potential B cell linear epitopes are unique to Zika virus.

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