Data Sheet (Cat.No.TMAY-02947)

TargetMol

Anti-Zika virus (ZIKV) (strain Zika SPH2015) E/Envelope protein (Domain III) Antibody (2M987)

Product Details

Ig Type:	Rabbit IgG
Conjugation:	Unconjugated
Clone:	2M987
Purification:	Protein A

Applications

Verified Activity:	Anti-Zika virus (strain Zika SPH2015) E / Envelope protein (Domain III) rabbit monoclonal antibody at 1:2000 dilution -Sample: Zika virus (strain Zika SPH2015) E / Envelope protein (Domain III,His Tag) -Lane A: 5ng -Secondary -Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. -Developed using the ECL technique. -Performed under reducing conditions.
Application:	WB
Recommended	WB: 1:2000-1:10000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Zika virus (strain Zika SPH2015) E / Envelope protein (Domain III) Protein (TMPY-04895)
Antigen Species:	ZIKV

Research Background

Envelope of Zika virus is responsible 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 with 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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