Monoclonal Anti-Zika Virus Envelope (E) Protein, Clone ZV-2 (produced in vitro)

Catalog No. NR-50414

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Antibody Class: IgG2c
Mouse monoclonal antibody prepared against the envelope (E) glycoprotein of Zika virus (ZIKV) was purified from clone ZV-2 hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of P3X63Ag8.653 mouse myeloma cells with immunized mouse splenocytes. The ZV-2 antibody is non-neutralizing, recognizes an epitope within the ABDE sheet of the DIII domain of the E glycoprotein, and does not cross-react on dengue, Japanese encephalitis, or West Nile viruses.1-3

Material Provided:
Each vial of NR-50414 contains approximately 100 µL of purified monoclonal antibody in phosphate-buffered saline, pH 7.4. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis for each lot.

Packaging/Storage:
NR-50414 was packaged aseptically in screw-capped plastic vials and is provided frozen on dry ice. The product should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:
NR-50414 specifically recognizes ZIKV-infected cells in indirect immunofluorescence assays. See Certificate of Analysis for details. The clone ZV-2 antibody is also reported to function in ELISA and in western blot assays performed under non-reducing conditions.3

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Zika Virus Envelope (E) Protein, Clone ZV-2 (produced in vitro), NR-50414.”

Biosafety Level: 1

Disclaimers:
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NR-50414 is claimed in U.S. Provisional Patent Application number 62/366,782 and the continuations, continuations-in-part, re-issues, and foreign counterparts thereof. For-profit entities wishing to obtain this material must confirm in writing to BEI Resources that they have executed a licensing agreement with the Contributor's institution. Please contact the Office of Technology Management of the Washington University in St. Louis directly at mta@dom.wustl.edu.
References:

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