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12-8293: Anti-Zika, Env (Clone ZIKA-4499)-Purified No Carrier Protein

Clonality :	Monoclonal
Clone Name :	ZIKA-4499
Application :	ELISA
Alternative Name :	envelope, E protein
Isotype :	Mouse IgG2a k

Description

Specificity: Anti-Zika virus (Clone ZIKA-4499) is specific for Zika virus envelope (E) protein.
Background: Zika virus (ZIKV) infection during pregnancy is a global public health problem 1, linked causally to severe fetal abnormalities 2. Prophylactic antibodies may prove useful in treating pregnant patients or for designing epitope-specific vaccines 1. ZIKV is a mosquito-transmitted flavivirus that encodes a single polyprotein with an ~11 kb positive-sense RNA open reading frame 1. The polyprotein is cleaved into seven non-structural (NS) proteins and three structural proteins (capsid (C), pre-membrane (prM), and envelope (E)). C forms a nucleocapsid. prM complexes with E to facilitate folding and prevent premature fusion to host membranes. E is responsible for viral assembly, attachment, entry, and fusion 1,3 and is a major target of neutralizing antibody research 3. Mature ZIKV virions incorporate 180 copies each of the E and M proteins 4,5.

Product Info

Amount :	250µg
Purification :	Purity: >90% for SDS PAGE Preparation: This monoclonal antibody is purified by ion exchange chromatography.
Content :	Concentration: ≥1.0 mg/ml Formulation: Formulated in 0.015 M phosphate buffered saline (0.85% NaCl), pH 7.2 and contains 0.05% sodium azide. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.
Storage condition :	This purified antibody is stable when stored at 2-8°C. Do not freeze.

Application Note

ELISA, Lateral Flow

For Research Use Only. Not for use in diagnostic/therapeutics procedures.