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12-8252: Anti-Rift Valley Fever Virus, Nucleoprotein (Clone RVF-5455)

Clonality :	Monoclonal
Clone Name :	RVF-5455
Alternative Name :	RVFN, RVF, RVFV N protein
Isotype :	Mouse IgG1 κ

Description

Specificity: Anti-Rift Valley Fever Virus (Clone RVF-5455) is specific for the Nucleoprotein of Rift Valley Fever Virus.
Background: Rift Valley Fever Virus (RVFV) is a member of the Phlebovirus genus within the Bunyaviridae family, which comprises a diverse group of enveloped, negative-sense RNA viruses. RVFV is the causative agent of Rift Valley fever (RVF), a zoonotic disease primarily affecting domesticated livestock such as cattle, sheep, and goats, but it can also infect humans. This mosquito-borne virus is endemic to parts of Africa and the Arabian Peninsula, where it periodically causes severe outbreaks with significant economic and public health consequences. RVFV transmission to humans can occur through contact with infected animals or their bodily fluids, as well as through mosquito bites. In humans, RVF can manifest as a febrile illness, but in severe cases, it can lead to hemorrhagic fever and encephalitis with a high mortality rate. RVFV poses a notable threat due to its potential for rapid spread and its ability to cause outbreaks that impact both animal and human populations. The nucleoprotein (N protein) of Rift Valley Fever Virus (RVFV) is a critical structural and functional component of the virus that encapsulates the viral RNA genome, playing a central role in its replication and assembly. It is also a crucial antigenic target for diagnostic purposes. Antibodies against the N protein are commonly used in serological assays, such as enzyme-linked immunosorbent assays (ELISA), to detect RVFV-specific antibodies in patient serum, aiding in the diagnosis of RVFV infections in both humans and livestock.

Product Info

Amount :	250µg
Purification :	Purity: ≥90% Preparation: This monoclonal antibody is purified by protein A chromatography or sequential differential precipitations.
Content :	Concentration: ≥1.0 mg/ml Formulation: Formulated in 0.01 M phosphate buffered saline, pH 7.2 and contains 0.1% 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.