Leinco Technologies, Inc.
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Anti-Rift Valley Fever Virus, Glycoprotein (Gc) [Clone RVFV-128] — Purified No Carrier Protein

Recombinant Monoclonal Antibody

Product Information

Product No.:	R228
Clone:	RVFV-128
Isotype:	Human IgG1

Product Description

Specificity:
Clone RVFV-128 binds a unique epitope of the fusion loop adjacent to domain II (DII) of the Gc glycoprotein of Rift Valley Fever Virus (RVFV).

Antigen Distribution:
RVFV is primarily found in hepatic cells, endothelial cells, and mononuclear phagocytes in the human body. This distribution reflects the virus's tendency to cause hepatitis, hemorrhagic fever, and encephalitis during infection.

Background:
RVFV is a mosquito-borne phlebovirus primarily found in sub-Saharan Africa, especially in eastern and southern Africa. It infects both humans and ungulates (such as cows, goats, and sheep). RVFV causes a wide range of health effects, from mild illness to severe conditions like hemorrhagic disease, encephalitis, hepatitis, kidney injury, and retinitis. The virus can lead to spontaneous abortions in animals. RVFV outbreaks often occur during years of unusually heavy rainfall and flooding, as mosquitoes hatch more eggs, increasing transmission potential[1,2].

RVFV-128 is a monoclonal antibody that specifically recognizes a unique epitope of the fusion loop adjacent to domain II (DII) of the Gc glycoprotein of Rift Valley Fever Virus (RVFV).

Known Reactivity Species:
Rift Valley Fever Virus

Expression Host:
HEK-293 Cells

Format:
Purified No Carrier Protein

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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Immunogen:
Sequenced from circulating B-cells isolated from a donor who had recovered from a naturally-occurring Rift Valley Fever Virus infection or was vaccinated with RVFV MP-12 vaccine.

Formulation
This recombinant monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. 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.

Purity
≥90% monomer by analytical SEC and SDS-Page

Storage and Stability
This antibody may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C. **Avoid Repeated Freeze Thaw Cycles.**

Product Preparation
Recombinant antibodies are manufactured in an animal free facility using only *in vitro* protein free cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.
Other Applications Reported in Literature:

ELISA,
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Country of Origin
USA

References
1. Makoschey B, Kilsdonk E van, Hubers WR, et al. PLOS Neglected Tropical Diseases. 2016;10(3):e0004550.
2. Wandera N, Olds P, Muhindo R, Ivers L. N Engl J Med. 2023;389(20):1829-1832.
3. Chapman NS, Kose N, et al. PNAS.2021;118(14).
4. Jäckel S, Eiden M, Dauber M, Balkema-Buschmann A, Brun A, Groschup MH. Arch Virol. 2014;159(3):535-546.

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