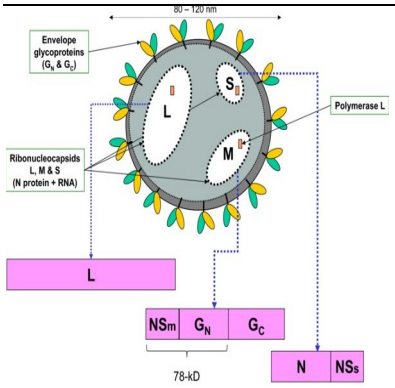
ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

Cat#RVFV11-S **Rabbit anti-Rift Valley Fever Virus G2/Gc antiserum** **SIZE:100 ug**



Rift Valley Fever virus (RVFV) is a mosquito-borne zoonotic disease endemic to Africa. RVFV is a negative stranded RNA virus which belongs to the *Bunyaviridae* family and *Phlebovirus* genus. RVFV is characterized by high rates of abortion in ruminants and hemorrhagic fever, encephalitis, and blindness in humans. The RVFV genome encodes 7 proteins; the nucleoprotein (N), M, NSs, NSm, Gn, Gc, and the L protein. Sheeps, goats, camels, and cattle are the most susceptible animals affected by RVFV. Humans can become infected by RVFV through contact with aerosols of body fluids from infected animals or from the bites of mosquitoes.

RVFV is classified as a category A priority pathogen by the NIH and an overlap select agent by the HHS and USDA. Currently a live-attenuated MP-12 vaccine generated from the pathogenic wild-type strain ZH548 is conditionally licensed for use for veterinary purposes in the United States. RVFV is one of several viruses identified by WHO as a likely cause of future epidemics in a new plan developed after the 2014 Ebola epidemic for urgent research and development toward new diagnostic tests, vaccines, and medicines. Current diagnosis of RVFV relies on viral isolation from tissues or serological testing using an ELISA. Other methods include NAT, PRNT, and IgM assays.

Source and Forms of the antibody

Antigen	RVFG25-R-100
Antibody Host/type	Rabbit, Polyclonal antiserum (Cat# RVFV11-S). Supplied in 0.01% Sodium Azide as preservative.
Secondary Antibody	Goat Anti-Rabbit IgG-HRP cat # 20320 (AP, biotin, FITC conjugates)
Negative control IgG	Cat# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC, IP as negative control
Purification	Ammonium sulfate precipitation

Storage

Short-term: unopened, undiluted vials for less than a week at 4°C.

Long-term: at –20°C or below in suitable aliquots after reconstitution. Do not freeze and thaw. Do not store working, diluted solutions.

Stability: 6-12 months at –20°C or below.
Shipping: 4°C for solutions and room temperature for powder.

Recommended Usage

Western Blotting: Purified protein RVFG25-R-100 is available as a control with RVFV11-S. Use at dilution of 1:50,000-1:100,000

ELISA: A450 of 1.0 obtained against RFVG25-R-10 at a dilution of 125k

*Above dilutions are a suggestion and user's must optimize based on their own assays. This protein can be used for applications not suggested above but has not been validated by ADI in other applications.

Specificity & Cross-reactivity

RVFG25-R-100 has 59% homology with Gabek Forest virus glycoprotein, 57% Karimabad virus glycoprotein, 55% Uriurana virus glycoprotein, 54% Uriurana virus glycoprotein, and 53% Punta Toro virus M protein.

References: Dessau M, Modis Y (January 2013). Proc. Natl. Acad. Sci. U.S.A. 110 (5): 1696–701; Jup, P. G. (2002). Medical and veterinary entomology 16 (3): 245–252; Turell, M. J (2007). Journal of the American Mosquito Control Association 23 (4): 378–382.

*This product is for In vitro research use only.

Related material available from ADI

Catalog# Description
RV-404320-1 RecombiVirus Mouse Anti-Rift Valley Fever Virus (RVFV) G2/Gc IgG ELISA kit, Quantitative, 96 tests
RV-404330-1 RecombiVirus Human Anti-Rift Valley Fever Virus (RVFV) G2/Gc IgG ELISA kit, Quantitative, 96 tests
RV-404335-1 RecombiVirus Human Anti-Rift Valley Fever Virus (RVFV) G2/Gc IgM ELISA kit, Quantitative, 96 tests
RV-404370-1 RecombiVirus Mouse Anti-Rift Valley Fever Virus (RVFV) NP IgG ELISA kit (DIVA), Quantitative, 96 tests
RV-404375-1 RecombiVirus Mouse Anti-Rift Valley Fever Virus (RVFV) NP IgM ELISA kit (DIVA), Quantitative, 96 tests
RV-404380-1 RecombiVirus Human Anti-Rift Valley Fever Virus (RVFV) NP IgG ELISA kit (DIVA), Quantitative, 96 tests
RV-404385-1 RecombiVirus Human Anti-Rift Valley Fever Virus (RVFV) NP IgM ELISA kit (DIVA), Quantitative, 96 tests
RVFG11-C Recombinant (E. coli) Rift Valley Fever Virus Gn/G1 protein control for Western blot
RVFG11-M Mouse Monoclonal Anti-Rift Valley Fever Virus Gn/G1 protein IgG, aff pure
RVFG15-R-10 Recombinant (E. coli) Rift Valley Fever Virus Gn/G1 protein (>90%, 154-583aa, ~50 Kda, His-tag) for ELISA
RVFL11-A Rabbit Anti-Rift Valley Fever Virus polymerase L protein IgG, aff pure
RVFL31-R-10 Recombinant (E. coli) Rift Valley Fever Virus polymerase L protein (>95%, 1-250aa, ~30 Kda, His-tag) for ELISA
RVFNP12-M Mouse Monoclonal Anti-Rift Valley Fever Virus (strain ZH-548 M12) NP IgG, aff pure
RVFNP16-R-10 Recombinant (HEK) Rift Valley Fever Virus NP protein (RVFV-NP) (1-245 aa, His-tag, 27 kDa, >95%) purified
RVFV11-S Rabbit anti-Rift Valley Fever Virus G2/Gc antiserum

RVFV11-S 171115IA

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