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Recombinant RAVN virus (RAVV) Glycoprotein minus the Mucin Domain (rGPΔmuc)

Catalog #: 0513-015

Lot #: 1804001

Description: Recombinant, purified RAVV rGPΔmuc protein with Strep-Tag® is produced in stably-transfected Drosophila Schneider 2 (S2) cells and is purified by FPLC. Within the species Marburg marburgvirus contains two virus types, Marburg virus (MARV) and RAVV viruses. RAVV is a close relative of the much more commonly known MARV.

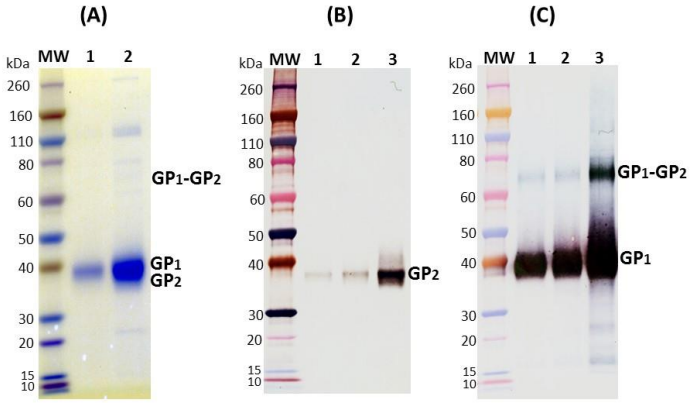
Storage: -80°C

Size: 100 µg/vial is supplied in PBS, pH 7.4 (supplemented with arginine, glutamic acid, and glycerol) at a concentration of **1.247 mg/mL**. The theoretical molecular weight of the protein is 56 kDa.

Relevance: Recombinant glycoprotein provides a means for antibody development, control protein for testing, and a tool to enhance research.

Related Products: *IBT provides a wide array of anti-filovirus specific antibodies and other infectious disease reagents. Please see our website, www.ibtbioservices.com for more details.*

SDS-PAGE & Western Blot Detection



(Panel A) SDS-PAGE demonstrating 1 µg and 5 µg (lane 1, 2 respectively) of RAVV rGPΔmuc protein under denaturing and reducing conditions. MW denotes Novex® Sharp pre-stained protein standard.
(Panel B and C) Western blot detection of RAVV rGPΔmuc at 50 ng, 100 ng and 500 ng (lanes 1-3) under denaturing and reducing conditions. (B) RAVV rGPΔmuc was detected using IBT's rabbit anti-MARV GP2 polyclonal antibody (cat# 0303-007) at 0.5 µg/mL and anti-rabbit IgG-HRP conjugate, followed by TMB membrane substrate. (C) RAVV rGPΔmuc was detected using IBT's anti-MARV GP1 monoclonal antibody at 0.5 µg/mL and anti-mouse IgG-HRP conjugate, followed by TMB membrane substrate.

ELISA Data

RAVV rGPΔmuc ng/well	OD 650 nm
800.000	3.575
400.000	3.509
200.000	3.415
100.000	3.228
50.000	3.084
25.000	2.803
12.500	2.429
6.250	1.915
3.125	1.416
1.563	0.911
0.781	0.529
0.391	0.298

Plate was coated with RAVV rGPΔmuc starting at 800 ng/well, serially diluted in DPBS. The washed plate was detected using one dilution of a positive control serum, followed with anti-IgG-HRP conjugate and TMB microwell substrate. OD_{650} is reported. Background of RAVV rGPΔmuc without positive control serum was **0.062** OD_{650}.