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Recombinant Ebola virus (EBOV) Glycoprotein minus the Mucin Domain (rGPΔmuc)

Catalog #: 0511-015

Lot #: 1802002

Description: Recombinant, purified Ebola virus (EBOV) rGPΔmuc protein with HIS-Tag is produced in Sf9 insect cells using baculovirus for expression and is purified by FPLC.

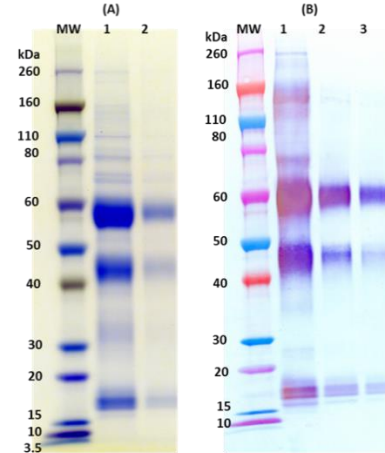
Storage: -80°C

Size: 100 µg/vial is supplied PBS, pH7.4 (supplemented with glycerol, arginine and glutamic acid) at a concentration of 0.968 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 5 µg and 1 µg (lane 1, 2 respectively) of EBOV rGPΔmuc protein under denaturing and reducing conditions. MW denotes Novex® Sharp pre-stained protein standard.

(Panel B) Western blot detection of EBOV rGPΔmuc at 500 ng, 100 ng and 50 ng (lanes 1-3) under denaturing and reducing conditions. EBOV rGPΔmuc was detected using an anti-EBOV rGPΔmuc polyclonal antibody at 2.0 µg/mL and anti-rabbit IgG-HRP conjugate, followed by TMB membrane substrate.

ELISA Data

EBOV rGPΔmuc ng/well	OD 650 nm
800.000	3.691
400.000	3.835
200.000	3.624
100.000	3.554
50.000	3.522
25.000	3.357
12.500	3.014
6.250	2.516
3.125	1.881
1.563	1.396
0.781	0.678
0.391	0.438

Plate was coated with EBOV 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. OD₆₅₀ is reported. Background of EBOV rGPΔmuc without positive control serum was 0.071 OD₆₅₀.

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