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Recombinant Ebola virus Glycoprotein minus the Transmembrane Region (EBOV rGP Δ TM)

Catalog #: 0501-015

Lot #: 2110001

Description: Mature, recombinant, His-tagged Ebola virus Glycoprotein minus the transmembrane domain (EBOV rGP Δ TM) is supplied as purified protein. EBOV rGP Δ TM is produced in SF9 insect cells using baculovirus for expression and is purified by FPLC.

Storage: 2-3 weeks at -20°C, -80°C long term

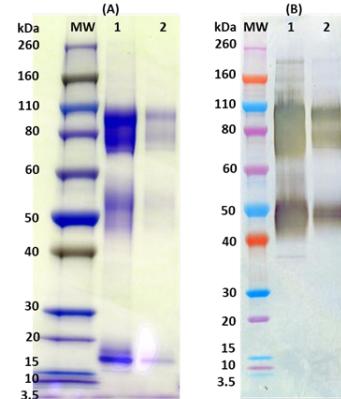
Size: 100 μ g of protein supplied in PBS (supplemented with glycerol, arginine and glutamic acid) at a concentration of 1.666 mg/mL. The theoretical molecular weight of the protein is ~68 kDa including the His-tag, without glycosylation. Because of the highly glycosylated nature of this protein, migration in an SDS-PAGE gel is slowed resulting in broad, diffuse bands representing differing glycosylation forms.

Relevance: Recombinant glycoprotein provides a means as a control protein for immunoassays and a tool to enhance research.

Western Blot: Quality control testing demonstrates strong detection of GP null and GP1 under reduced conditions.

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



(A) SDS-PAGE and stain demonstrating 5 μ g and 1 μ g (lanes 1, 2 respectively) of EBOV rGP Δ TM His-tag protein under denaturing and reducing conditions. MW denotes Novex® Sharp prestained protein marker. (B) Western blot detection of EBOV rGP Δ TM at 500 ng and 100 ng (lanes 1, 2 respectively) using rabbit anti-EBOV GP polyclonal antibody (catalog# 0301-015) at 0.5 μ g/mL and anti-rabbit IgG-HRP conjugate, followed by TMB membrane substrate.

ELISA Data

EBOV rGP Δ TM ng/well	OD 650 nm
800.000	3.639
400.000	3.563
200.000	3.534
100.000	3.600
50.000	3.501
25.000	3.568
12.500	3.371
6.250	3.401
3.125	3.172
1.563	2.721
0.781	2.244
0.391	1.499

Plate was coated with EBOV rGP Δ TM starting at 800 ng/well, serially diluted in DPBS. Washed plate was detected using one dilution of a positive control serum, followed with anti-IgG HRP conjugate and TMB substrate. OD₆₅₀ is reported. Background of EBOV rGP Δ TM coated plate positive control serum was 0.119 OD₆₅₀.

Intended for research use only, not for human, therapeutic, or diagnostic applications.

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