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Recombinant Ebola virus Glycoprotein minus the Transmembrane Region (EBOV rGPΔTM)

Catalog #: 0501-016

Lot #: 1710002

Description: Mature, recombinant, His-tagged Ebola virus Glycoprotein minus the transmembrane domain (EBOV rGPΔTM) is supplied as purified protein. EBOV rGPΔTM 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

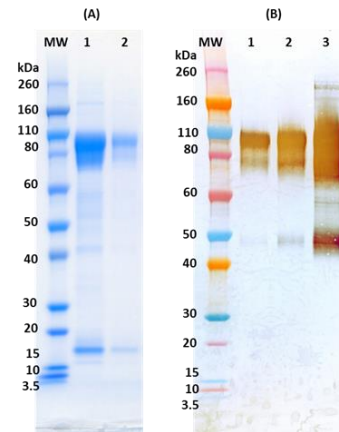
Size: 500 µg of protein supplied in PBS (supplemented with glycerol, arginine and glutamic acid) at a concentration of 1.591 mg/mL. The theoretical molecular weight of the protein is ~68 kDa including the His-tag, without glycosylation. Because of the highly glycosylated nature of this protein, migration 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 µg and 1 µg (lanes 1, 2 respectively) of EBOV rGPΔTM His-tag protein under denaturing and reducing conditions. MW denotes Novex® Sharp prestained protein marker. (B) Western blot detection of EBOV rGPΔTM at 50 ng, 100 ng and 500 ng (lanes 1-3) using rabbit anti-EBOV GP polyclonal antibody (catalog# 0301-015) at 0.5 µg/mL and anti-rabbit IgG-HRP conjugate, followed by TMB membrane substrate.

ELISA Data

EBOV rGPΔTM ng/well	OD 650 nm
800.000	3.550
400.000	3.771
200.000	3.655
100.000	3.637
50.000	3.774
25.000	3.673
12.500	3.472
6.250	3.285
3.125	2.812
1.563	2.015
0.781	1.267
0.391	0.609

Plate was coated with EBOV rGPΔTM 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 rGPΔTM coated plate positive control serum was 0.071 OD₆₅₀.

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

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