

Recombinant Ebola Virus Soluble Glycoprotein (EBOV sGP)

Catalog #: 0565-001

Lot #: 1708002

Description: Mature, recombinant Ebola Virus Soluble Glycoprotein (EBOV sGP) containing a C-terminal HIS tag, is supplied as purified protein. EBOV sGP is produced in mammalian cells and is purified by FPLC.

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

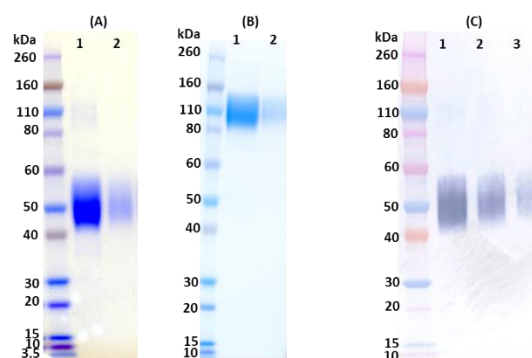
Size: 100 µg of protein is supplied in PBS (supplemented with glycerol, arginine and glutamic acid) at a concentration of **1.864 mg/mL**. The theoretical molecular weight of the protein is ~43 kDa. Because of the glycosylated nature of this protein, migration in an SDS-PAGE gel is slowed resulting in a broad, diffuse band representing differing glycosylation forms.

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

Western Blot: Quality control testing demonstrates strong detection of EBOV soluble GP under reduced and non-reduced conditions down to 50 ng when using IBT's rabbit anti-EBOV sGP polyclonal antibody (cat 0365-001) at 0.1 µg/mL.

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



(Panels A and B) SDS-PAGE demonstrating 5 µg and 1 µg (lane 1 and 2, respectively) of EBOV sGP protein (A) under reducing and denaturing conditions and (B) under non-reducing and denaturing conditions.

(Panel C) Western blot detection of EBOV sGP reduced and denatured at 200 ng, 100 ng, and 50 ng (lanes 1-3, respectively). EBOV sGP was detected using IBT's rabbit anti-EBOV sGP polyclonal antibody at 0.1 µg/mL and goat anti-rabbit IgG-HRP conjugate, followed by TMB substrate.

ELISA Data

EBOV sGP (ng/well)	OD 650 nm
400.000	3.957
200.000	3.729
100.000	3.605
50.000	3.180
25.000	2.440
12.500	1.517
6.250	0.876
3.125	0.562
1.563	0.364
0.781	0.216
0.391	0.138
0.195	0.102

Plate was coated with EBOV sGP starting at 400 ng/well, serially diluted in DPBS. Washed plate was detected using one dilution of rabbit anti-EBOV sGP antibody followed with goat anti-rabbit IgG-HRP conjugate and TMB substrate. The OD₆₅₀ reported shows the response of the rabbit anti-EBOV sGP antibody against the titrated EBOV sGP.

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