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Recombinant Angola marburgvirus Glycoprotein minus the transmembrane and mucin-like domain (MARV-Angola rGPΔmuc)

Catalog #: 0516-015

Lot #: 1807002

Description: Recombinant, Angola marburgvirus virus Glycoprotein minus the transmembrane and mucin-like domain (MARV-Angola rGPΔmuc) is supplied as purified protein. MARV-Angola rGPΔmuc 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

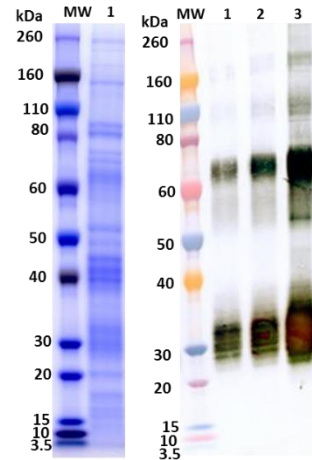
Size: 100 µg of protein supplied in PBS (supplemented with glycerol, arginine and glutamic acid) at a concentration of 1.395 mg/mL. The theoretical molecular weight of the protein is ~60 kDa including the His-tag, without glycosylation. Because of the glycosylated nature of this protein, migration in an SDS-PAGE gel is slowed resulting in a broad 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 GP null, GP1 and GP2 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 (lane 1) of MARV-Angola rGPΔmuc His-tag protein under denaturing and reducing conditions. MW denotes Novex® Sharp prestained protein markers. (B) Western blot detection of MARV-Angola rGPΔmuc at 50 ng, 100 ng, and 500 ng (lanes 1, 2 and 3, respectively). MARV-Angola rGPΔmuc was detected using IBT's anti-MARV GP rabbit polyclonal antibody (cat# 0303-007) at 0.5 µg/mL and anti-rabbit IgG-HRP conjugate, followed by substrate.

ELISA data:

MARV-Angola GPΔmuc (ng/well)	OD 650 nm
800.00	3.695
400.00	3.658
200.00	3.630
100.00	3.515
50.00	3.326
25.00	2.949
12.50	2.348
6.25	1.747
3.13	1.121
1.56	0.674
0.78	0.385
0.39	0.230

Plate was coated with MARV-Angola rGPΔmuc starting at 800ng/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 MARV-Angola rGPΔmuc coated plate without positive control serum was 0.054 OD₆₅₀.

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

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