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IBT BIOSERVICES

Recombinant Angola marburgvirus Glycoprotein minus the Transmembrane Region (MARV-Angola rGPdTM)

Catalog #: 0506-016

Lot #: 1501004

Description: Mature, recombinant, His-tagged Angola marburgvirus Glycoprotein minus the transmembrane domain (MARV-Angola rGPdTM) is supplied as purified protein. MARV-Angola rGPdTM 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

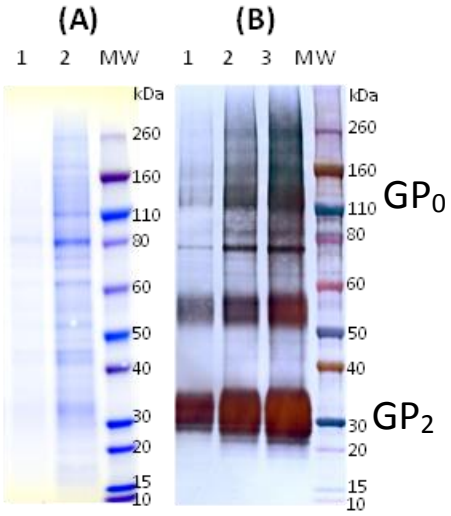
Size: 500 µg of protein supplied in PBS (supplemented with glycerol, arginine and glutamic acid) at a concentration of **0.55 mg/mL**. The theoretical molecular weight of the protein is ~60 kDa including the His-tag, without glycosylation. Because of the highly glycosylated nature of this protein, migration in an SDS-PAGE gel is slowed resulting in broad, diffuse bands representing differing glycosylation forms.

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

Western Blot: Quality control testing demonstrates strong detection of GP null 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 1 µg and 5 µg (lane 1, 2 respectively) of MARV-Angola rGPdTM His-tag protein under denaturing and reducing conditions. MW denotes Novex Sharp prestained protein markers. (B) Western blot detection of MARV-Angola rGPdTM at 100 ng, 500 ng and 1000 ng (lanes 1-3). MARV-Angola rGPdTM was detected using IBT's polyclonal antibody (catalog # 0303-007) at 0.5 µg/mL and anti-rabbit IgG-HRP conjugate, followed by substrate.

ELISA Data

MARV-Angola rGPdTM ng/well	OD 650 nm
800.00	3.771
400.00	3.737
200.00	3.752
100.00	3.671
50.00	3.625
25.00	3.464
12.50	3.240
6.25	2.631
3.13	2.032
1.56	1.361

Plate was coated with MARV-Angola rGPdTM 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. OD_{650} is reported. Background of MARV-Angola rGPdTM coated plate without positive control serum was **0.088** OD_{650}.

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

The buyer cannot sell or otherwise transfer this product for Commercial Purposes without written approval of Integrated BioTherapeutics, Inc.