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

Catalog #: 0506-015

Lot #: 2209002

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

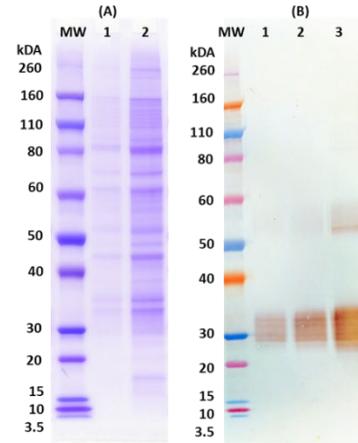
Size: 100 µg of protein supplied in PBS (supplemented with glycerol, arginine and glutamic acid) at a concentration of 0.616 mg/mL. The theoretical molecular weight of the protein is ~60 kDa including the His-tag, without glycosylation. Because of the highly glycosylated nature of this protein, migration 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 rGPΔTM His-tag protein under denaturing and reducing conditions. MW denotes Novex Sharp prestained protein markers. (B) Western blot detection of MARV-Angola rGPΔTM at 50 ng, 100 ng and 500 ng (lanes 1-3). MARV-Angola rGPΔTM 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 rGPΔTM ng/well	OD 650 nm
800.000	3.475
400.000	3.467
200.000	3.469
100.000	3.323
50.000	3.165
25.000	2.975
12.500	2.616
6.250	2.113
3.125	1.610
1.563	0.989
0.781	0.564
0.391	0.335

Plate was coated with MARV-Angola 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 MARV-Angola rGPΔTM coated plate without positive control serum was 0.071 OD₆₅₀.

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

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