



**IBT BIOSERVICES**

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

Catalog #: 0506-016

Lot #: 1710008

**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

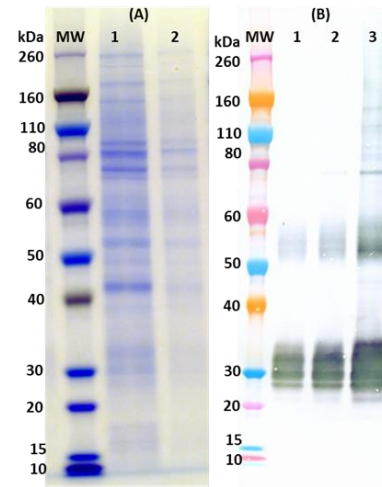
**Size:** 500 µg of protein supplied in PBS (supplemented with glycerol, arginine and glutamic acid) at a concentration of 0.325 mg/mL. The theoretical molecular weight of the protein is ~60 kDa including the His-tag, without glycosylation. Because of the highly glycosylated nature of this protein, migration 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](http://www.ibtbioservices.com) for more details.

### SDS-PAGE & Western Blot Detection



(A) SDS-PAGE and stain demonstrating 5 µg and 1 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<br>ng/well | OD 650 nm |
|-------------------------------|-----------|
| 800.000                       | 3.748     |
| 400.000                       | 3.519     |
| 200.000                       | 3.370     |
| 100.000                       | 3.462     |
| 50.000                        | 3.381     |
| 25.000                        | 3.174     |
| 12.500                        | 2.866     |
| 6.250                         | 2.536     |
| 3.125                         | 1.933     |
| 1.563                         | 1.278     |
| 0.781                         | 0.790     |
| 0.391                         | 0.372     |

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. OD<sub>650</sub> is reported. Background of MARV-Angola rGPΔTM coated plate without positive control serum was 0.073 OD<sub>650</sub>.

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

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