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# Recombinant Ebola virus Glycoprotein minus the Transmembrane Region (EBOV rGPΔTM)

## Catalog No: tcip3046

## Available Sizes

**Size:** 100µg

**Size:** 500µg

## Specifications

**Application:**
ELISA, WB

**Research Area:**
Virology

**Form:**
Frozen Liquid

**Concentration:**
supplied in PBS (supplemented with glycerol, arginine and glutamic acid) at a concentration of 0.615 mg/mL

**Recommended Dilution:**
Western Blot: Quality control testing demonstrates strong detection of GP under reduced conditions.

**Storage Instruction:**
2-3 weeks at -20°C, long term It is recommended to dispense single-use aliquots and store aliquots at -80°C to avoid multiple freeze/thaw cycles

**Relevance:**
Recombinant glycoprotein provides a means as a control protein for immunoassays and a tool to enhance research

## Product Description

Mature, recombinant, His-tagged Ebola virus Glycoprotein minus the transmembrane domain (EBOV rGPΔTM) is supplied as purified protein. EBOV rGPΔTM is produced in S2 insect cells and is purified by FPLC.

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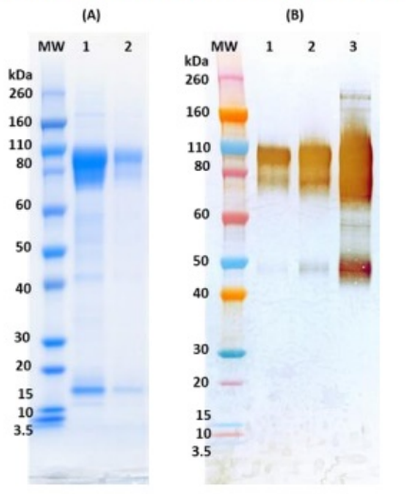
**SDS-PAGE & Western Blot Detection**




The theoretical molecular weight of the protein is ~68 kDa including the His-tag, without glycosylation. Because of the highly glycosylated nature of this protein, migration in an SDSPAGE gel is slowed resulting in broad, diffuse bands representing differing glycosylation forms. (A) SDS-PAGE and stain demonstrating 5 µg and 1 µg (lanes 1, 2 respectively) of EBOV rGPΔTM His-tag protein under denaturing and reducing conditions. MW denotes Novex® Sharp prestained protein marker. (B) Western blot detection of EBOV rGPΔTM at 50 ng, 100 ng and 500 ng (lanes 1-3) using rabbit anti-EBOV GP polyclonal antibody (catalog# tcia135) at 0.5 ug/mL and antirabbit IgG-HRP conjugate, followed by TMB membrane substrate.

**ELISA Data**

| EBOV rGPΔTM ng/well | OD 650 nm |
|---|---|
| 800.000 | 3.550 |
| 400.000 | 3.771 |
| 200.000 | 3.655 |
| 100.000 | 3.637 |
| 50.000 | 3.774 |
| 25.000 | 3.673 |
| 12.500 | 3.472 |
| 6.250 | 3.285 |
| 3.125 | 2.812 |
| 1.563 | 2.015 |
| 0.781 | 1.267 |
| 0.391 | 0.609 |

Plate was coated with EBOV 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 650 is reported. Background of EBOV rGPΔTM coated plate positive control serum was 0.071 OD 650.