

SDS-PAGE & Western Blot Detection

**Recombinant Musoke
 marburgvirus Glycoprotein minus
 the Transmembrane Region
 (MMARV rGPΔTM) His-tagged**

Catalog #: 0503-001

Lot #: 1805002

Description: Mature, recombinant, His-tagged Musoke marburgvirus Glycoprotein minus the transmembrane domain (MMARV rGPΔTM) is supplied as a purified protein. MMARV rGPΔTM is produced in mammalian cells and is purified by FPLC.

Storage: -80°C long term

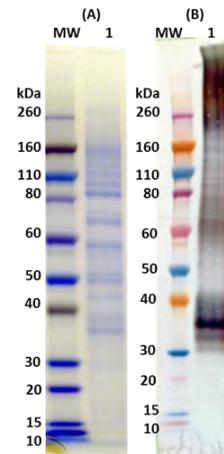
Size: 100 µg of MMARV rGPΔTM is supplied in PBS (supplemented with glycerol, arginine and glutamic acid) at a concentration of 0.273 mg/mL.

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

SDS-PAGE: The theoretical molecular weight of the protein is ~71 kDa 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

Western Blot: Quality control testing demonstrates detection of MMARV rGPΔTM under reduced conditions down to 50 ng when using IBT's polyclonal antibody (cat# 0303-007) at 0.5 µg/mL. 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.



(A) SDS-PAGE and stain demonstrating 3 µg of MMARV rGPΔTM His-tagged protein (lane 1) under denaturing and reducing conditions. MW denotes Novex® Sharp pre-stained protein markers.

(B) Western blot detection of MMARV rGPΔTM His-tagged at 500 ng (lane 1) using IBT's anti-MARV GP polyclonal antibody (cat#0303-007) at 0.5 µg/mL and anti-rabbit IgG-HRP conjugate, followed by TMB membrane substrate.

ELISA Data

Coating amount MMARV GPΔTM (ng/well)	OD 650 nm
800.000	3.362
400.000	3.401
200.000	3.353
100.000	3.293
50.000	3.073
25.000	2.706
12.500	2.177
6.250	1.549
3.125	0.921
1.563	0.494
0.781	0.282
0.391	0.187

Plate was coated with MMARV rGPΔTM His-tagged 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 MMARV rGPΔTM coated plate without positive control serum was 0.055 OD₆₅₀.

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

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