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Recombinant Bundibugyo Glycoprotein minus the Transmembrane Region (BDBV rGPΔTM)

Catalog #: 0505-015

Lot #: 1306009

Description: Mature, recombinant, His-tagged Bundibugyo glycoprotein minus the transmembrane domain (BDBV rGPΔTM) is supplied as purified protein. BDBV rGPΔTM is produced in Sf9 insect cells using baculovirus for expression and is purified by column chromatography.

Storage: 2-3 weeks at -20◦C, -80◦C long term

Size: 100 µg of protein is supplied in PBS (supplemented with 10% glycerol, arginine and glutamic acid) at a concentration of **1.59 mg/mL**. The theoretical molecular weight of the protein is ~73 kDa including the His-tag, without glycosylation. Because of the glycosylated nature of this protein, migration in an SDS-PAGE gel results in a broad band.

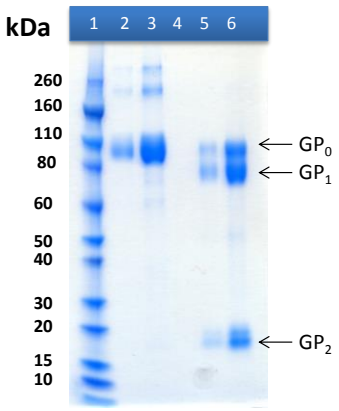
Relevance: Recombinant BDBV glycoprotein provides a means as a control protein for immunoassays and a tool to enhance Filovirus research.

Western Blot*:* Quality control testing demonstrates strong detection of GP null and GP1 under reduced conditions when using IBT's Rabbit anti-BDBV GP polyclonal antibody (Cat #: 0304-001).

Related Products:

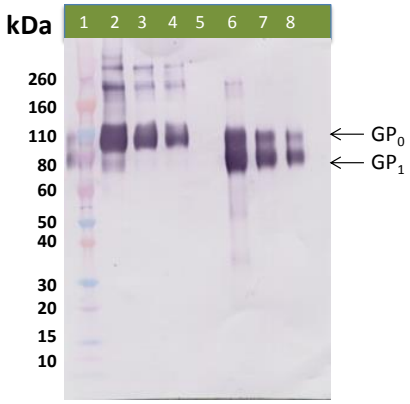
IBT provides a wide array of anti-filovirus specific antibodies, recombinant proteins and other infectious disease reagents. Please see our website, www.ibtbioservices.com for more details.

SDS-PAGE



SDS-PAGE and stain demonstrating 1 µg (lanes 2 and 5) and 5 µg (lanes 3 and 6) of BDBV rGPΔTM protein under nonreducing (lanes 2 and 3) and reducing conditions (lanes 5 and 6). Lane 1 denotes Novex MW markers. Lane 4 was intentionally left blank.

Western Blot Detection



Western blot detection of BDBV rGPΔTM at 500 ng (lanes 2 and 6), 100 ng (lanes 3 and 7) and 50 ng (lanes 4 and 8) under nonreducing (lanes 2-4) and reducing conditions (lanes 6-8). Detected with IBT's rabbit anti-BDBV GP pAb (Cat #: 0304-001) at 500 ng/mL and an anti-rabbit IgG-AP conjugate followed by substrate. Lane 1 denotes Novex MW markers. Lane 5 was intentionally left blank.