

Sudan virus-like particles (SUDV VLP)

Catalog #: 0567-001

Lot #: 1602003

Description: Virus-like Particles (VLP's) expressing recombinant Sudan virus (SUDV) glycoprotein (GP), nucleoprotein (NP), and matrix protein (VP40). These VLP's are produced in Sf9 insect cells through infection with a recombinant baculovirus.

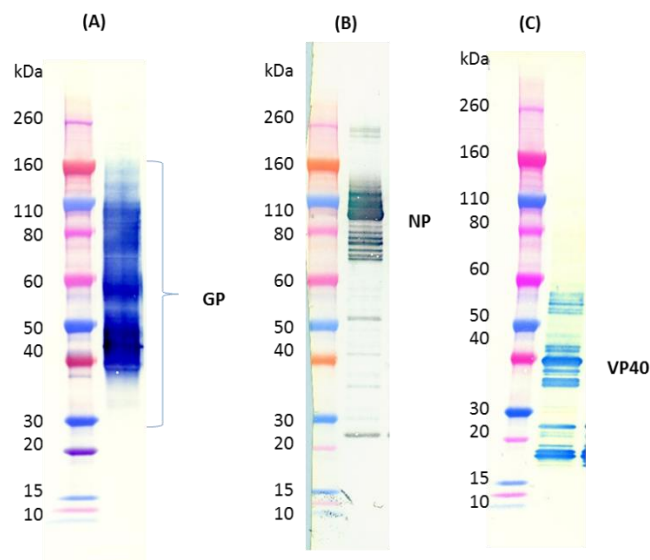
Storage: 2-3 weeks at -20°C, -80°C long term

Size: 1 mg of protein supplied in PBS (supplemented with glycerol, arginine and glutamic acid) at a concentration of **1.828 mg/mL**.

Relevance: Since these VLP's mimic Sudan virus but do not contain genetic material, thus are not infectious and make an ideal candidate as a vaccine and also as a tool to enhance filovirus research.

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.

Western Blot Detection



Western Blot was used to confirm the presence of Sudan-specific GP, NP and VP40 in the VLP. VLP sample was heat-denatured under reducing condition and loaded at 4 µg/lane (A) and 1 µg (B & C).

(A) GP was detected as a broadly-diffused band ~37-160 kDa using 0.5 µg/mL of Anti-SUDV GP mAb

(B) NP was detected as a multiple bands at ~70-110 kDa using 0.1 µg/mL of Anti-SUDV NP pAb (cat# 0302-012)

(C) VP40 was detected as multiple protein bands with one duplet band at ~40 kDa and a strong band at ~20 kDa using 0.1 µg/mL of Anti-SUDV VP40 pAb (cat# 0302-001)

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