

SUDV virus-like particles (SUDV VLP)

Catalog #: 0567-001

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.

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.

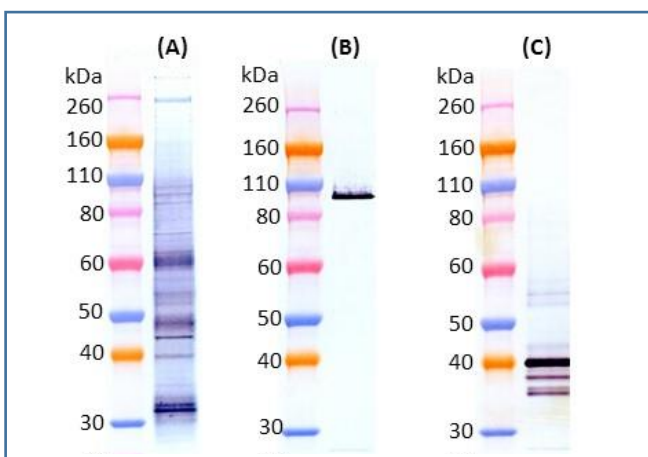
Formulation & Storage: Supplied in PBS (supplemented with arginine and glutamic acid). **Store** at 2-3 weeks at -20°C, -80°C long term.

Notes & Usage Guidelines:

Please note: After thawing, VLP's tend to sediment to the bottom of the tube and appear as aggregate pellet. VLP's can be resuspended by gentle vortexing or by pipetting up and down, before use. Also, subaliquoting is recommended to avoid repeated freeze/thaw cycles.

Applications

Western blot Detection



Left: 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 500 ng/lane (A) and 100 ng/lane (B & C).

(A) GP was detected as a broadly-diffused band ~37-160 kDa using 0.1 µg/mL of Anti-SUDV GP mouse mAb (2H5) (cat # 0202-029)

(B) NP was detected as a prominent band between 80 and 110 kDa using 0.1 µg/mL of Anti-SUDV NP rabbit pAb (cat# 0302-012)

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

Certificate of analysis:

A hardcopy of datasheet is sent along with the products. Please refer to it for detailed information. For older lots, refer to the applicable certificate of analysis that may be requested at services@ibtbioservices.com

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.