

MARV virus-like particles (MARV VLP)

Catalog #: 0566-001

Lot #: 1805005

Description: Virus-like Particles (VLP's) expressing recombinant Marburg (Musoke) virus (MMARV) 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 arginine and glutamic acid) at a concentration of **3.172 mg/mL**.

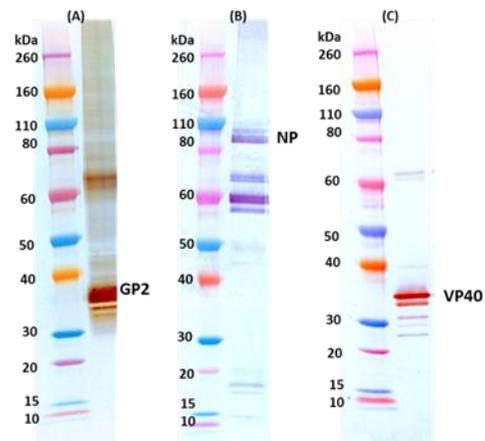
Endotoxin: 24.239 EU/mg

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.

Relevance: Since these VLP's mimic MARV (Musoke) virus but do not contain genetic material, thus are not infectious making an ideal candidate as a vaccine and 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 MMARV-specific GP, NP and VP40 in the VLP. VLP sample was heat-denatured under reducing condition and loaded at 1 µg/lane.

(A) GP₂ containing protein bands are visualized using 0.5 µg/mL of anti-MARV GP rabbit pAb (cat# 0303-007). GP is highly glycosylated and most often detected at a molecular weight higher than the theoretical size due to the altered mobility.

(B) NP was detected as a prominent band at ~90 kDa and other NP-containing fragments, using 0.5 µg/mL of anti-MARV NP rabbit pAb (cat# 0303-012).

(C) VP40 was detected as a prominent band at ~35 kDa and other VP40-containing fragments, using 0.5 µg/mL of anti-MARV VP40 rabbit pAb (cat# 0303-001).

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

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