

MARV virus-like particles (MARV VLP)

Catalog #: 0566-001

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.

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.

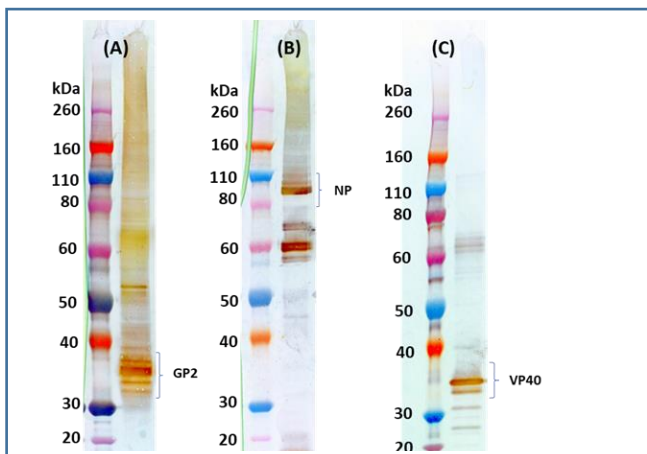
Formulation & Storage: Supplied in PBS (supplemented with arginine and glutamic acid). **Store** at 2-3 weeks at -20°C, -80°C long term.

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 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).

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:

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