Web: www.taiclone.com
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Ebola virus-like particles (EBOV VLP)

Catalog No: tcip3021

Available Sizes

Size: 1mg

Specifications

Application:
WB, ELISA

Research Area:
Virology

Form:
Frozen Liquid

Concentration:
Supplied in PBS (supplemented with arginine and glutamic acid) at concentration of 1.87 mg/mL.(Lot dependent)

Purity / Grade:
Column chromatography

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

Relevance:
Since these VLP's mimic Ebola 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.

Product Description

Virus-like Particles (VLP’s) expressing recombinant Ebola virus (EBOV)

glycoprotein (GP), nucleoprotein (NP), and matrix protein (VP40). These VLP’s are produced in Sf9 insect cells through infection with a recombinant baculovirus.

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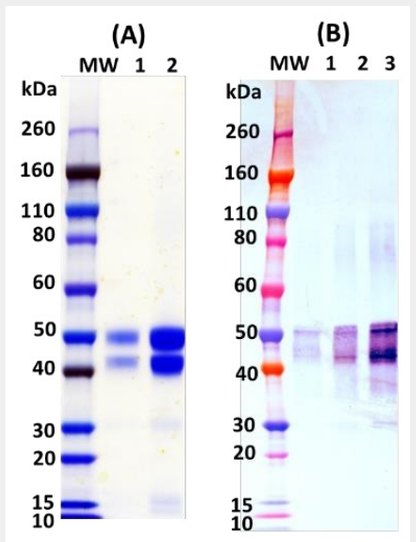
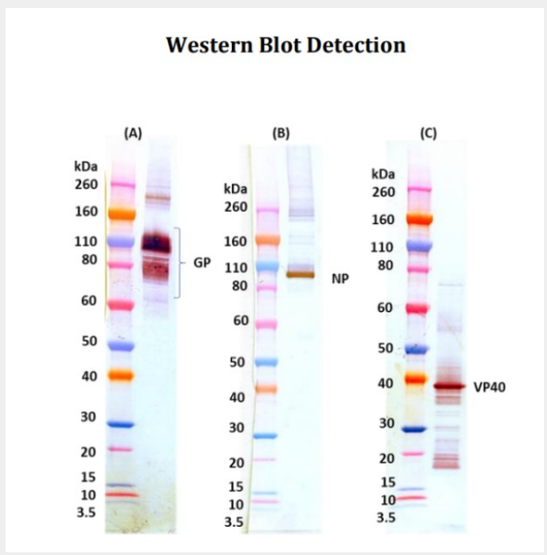


Quality control testing shows two prominent bands: E3E2 at ~50 kDa and cleaved E2 at ~40 kDa.(A) SDS-PAGE and stain demonstrating 1 µg and 5 µg (lanes 1-2) of EEEV E3E2/E2 protein under denaturing and reducing conditions. MW denotes Novex Sharp prestained protein markers. (B) Western blot detection of EEEV E3E2/E2 protein at 50 ng, 100 ng, and 200 ng (lanes 1-3) using Taiclone anti-EEEV E2 rabbit polyclonal antibody (Taiclone product No.tcia164) at 0.5 µg/mL and anti-rabbit IgGHRP conjugate, followed by TMB substrate.

ELISA Data:

Antigen coating Concentration in ng/well	OD 650 nm
800.000	3.795
400.000	3.739
200.000	3.603
100.000	2.930
50.000	1.726
25.000	0.610
12.500	0.221
6.250	0.119
3.125	0.073
1.563	0.058
0.781	0.073
0.391	0.055

Plate was coated with EEEV E3E2/E2 protein starting at 800 ng/well, serially diluted in DPBS. Washed plate was detected using Rabbit Anti-EEEV E2 pAb at 1 µg/mL. OD 650 is reported.



Western Blot was used to confirm the presence of EBOV-specific GP, NP and VP40 in the VLP. VLP sample was heat-denatured under reducing condition and loaded at 1 µg/lane. (A) GP was detected as a broadly-diffused band 60- 110 kDa using 10 ng/mL of anti-EBOV GP rabbit Pab (Taiclone #tcia135) (B) NP was detected as a single sharp band at ~90 kDa using 100 ng/mL of anti-EBOV NP rabbit Pab (Taiclone#tcia134) (C) VP40 was detected as a single sharp band at ~40 kDa using 50 ng/mL of anti-EBOV VP40 rabbit Pab (Taiclone#tcia133)