

Recombinant Zaire ebolavirus VP40 matrix protein (ZEBOV VP40)

Catalog #: 0501-020

Lot #: 1210002

Description: Recombinant, tag-free, purified Zaire ebolavirus VP40 matrix protein (ZEBOV VP40) is expressed in *E. coli* and the recombinant protein was purified using affinity chromatography.

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

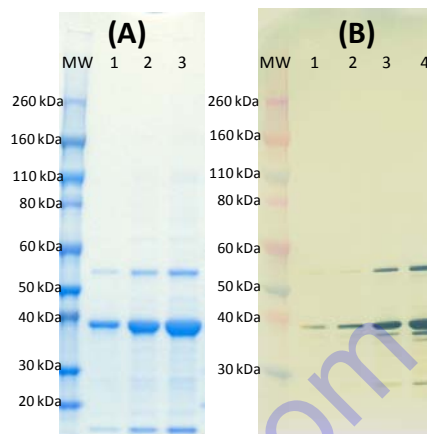
Size: 100 µg of protein is supplied in PBS + 0.1% sodium azide at a concentration of 0.74 mg/mL. The theoretical molecular weight of the protein is ~35 kDa.

Relevance: Recombinant ZEBOV VP40 matrix protein provides a means as a control protein for immunoassays and a tool to enhance Filovirus research.

SDS-PAGE & Western Blot: Quality control testing shows a prominent protein band below 40 kDa (VP40). A protein band between 50 kDa and 60 kDa is also observed corresponding to VP40 with tag.

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

SDS-PAGE & Western Blot Detection:



(A) SDS-PAGE and stain demonstrating 1 µg, 2.5 µg and 5 µg (lanes 1-3) of ZEBOV VP40 protein under denaturing and reducing conditions. MW denotes Novex Sharp prestained protein markers. (B) Western blot detection of ZEBOV VP40 at 50 ng, 100 ng, 500 ng and 1 µg (lanes 1-4). ZEBOV VP40 was detected using IBT's polyclonal antibody at 50 ng/mL and anti-rabbit IgG-HRP conjugate, followed by TMB substrate.

ELISA Data:

ZEBOV VP40 ng/well	OD 650 nm
800.00	4.000
400.00	3.862
200.00	3.777
100.00	3.620
50.00	3.371
25.00	2.939
12.50	2.348
6.25	1.679

Plate was coated with ZEBOV VP40 starting at 800 ng/well, serially diluted in DPBS. Washed plate was detected using one dilution of a positive control serum, followed with anti-IgG HRP conjugate and TMB substrate. OD₆₅₀ is reported. Background of ZEBOV VP40 coated plate without positive control serum was **0.049** OD₆₅₀.

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.