

Recombinant Ebola virus VP40 matrix protein (EBOV VP40)

Catalog #: 0564-001

Lot #: 1611001

Description: Recombinant, tag-free, purified Ebola virus (EBOV) matrix protein (VP40) is expressed in *E. coli* and the recombinant protein purified using FPLC.

Storage: -80°C. It is recommended to dispense single-use aliquots and store aliquots at -80°C to avoid multiple freeze/thaw cycles.

Size: 100 µg of protein is supplied in HEPES buffer pH 7.5 containing sodium chloride, 5% glycerol and 0.1% Triton-X, at a concentration of **1.741 mg/mL**. The theoretical molecular weight of the protein is ~35 kDa.

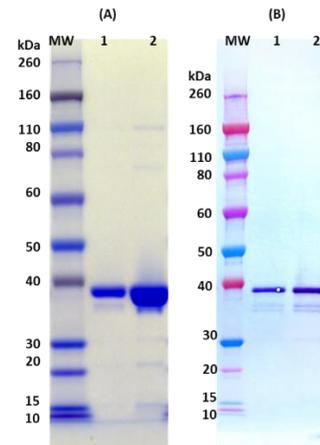
Relevance: Recombinant EBOV VP40 matrix protein provides a means as a control protein for immunoassays and a tool to enhance Filovirus research.

SDS-PAGE & Western Blot: Quality control testing shows a prominent protein band below 40 kDa (VP40).

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.

SDS-PAGE & Western Blot Detection:



(A) SDS-PAGE and stain demonstrating 1 µg and 5 µg (lanes 1-2) of EBOV VP40 protein under denaturing and reducing conditions. MW denotes Novex® Sharp pre-stained protein markers. (B) Western blot detection of EBOV VP40 at 50 ng and 100 ng (lanes 1-2). EBOV VP40 was detected using IBT's polyclonal antibody at 50 ng/mL (Cat. # 0301-010) and anti-rabbit IgG-HRP conjugate, followed by TMB membrane substrate.

ELISA Data:

EBOV VP40 ng/well	OD 650 nm
800.00	3.839
400.00	3.688
200.00	3.765
100.00	3.686
50.00	3.570
25.00	3.315
12.50	2.987
6.25	2.345
3.13	1.463
1.56	0.698
0.78	0.329
0.39	0.185

Plate was coated with EBOV 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.

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

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