

Recombinant Ebola virus VP24 matrix protein (EBOV VP24)

Catalog #: 0501-030

Lot #: 1606005

Description: Recombinant, HIS-tagged, purified Ebola virus (EBOV) matrix protein (VP24) 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 Tris buffered saline, at a concentration of **2.279 mg/mL**. The theoretical molecular weight of the protein is ~25 kDa.

Relevance: Recombinant EBOV VP24 matrix protein provides a means as a control protein for immunoassays and a tool to enhance Filovirus research.

SDS-PAGE: Quality control testing shows a prominent protein band above 20 kDa (VP24).

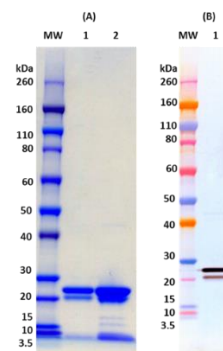
Western Blot: Assay-dependent dilution

ELISA: Assay-dependent dilution

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 and Western Blot



(A) SDS-PAGE and stain demonstrating 1 µg and 5 µg (lanes 1-2) of EBOV VP24 protein under denaturing and reducing conditions. MW denotes Novex® Sharp pre-stained protein markers. (B) Anti-EBOV VP24 antibody (0301-047) at 100 ng/mL detected 100 ng of EBOV rVP24 (lane 1) by Western Blot Analysis. Western Blots were developed using an anti-rabbit IgG-HRP conjugate and TMB Membrane substrate. MW denotes Novex® Sharp pre-stained protein markers.

ELISA Data:

Anti-EBOV VP24 Antibody (µg/mL)	EBOV VP24 @ 3 µg/mL
10.0000	3.928
3.1623	3.974
1.0000	3.758
0.3162	3.582
0.1000	2.959
0.0316	1.861
0.0100	0.809
0.0032	0.329
0.0010	0.151
0.0003	0.085
0.0001	0.082
0.0000	0.082
	OD 650nm

rVP24 protein was diluted to 3 µg/mL in PBS for plate coating. Anti-EBOV VP40 antibody was serially diluted semi-log from 10 µg/mL and incubated on the coated plates. Washed plates were detected with anti-rabbit IgG-HRP conjugate and TMB substrate. OD650 is reported above.

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