

## Recombinant marburgvirus VP40 matrix protein (MARV VP40)

Catalog #: 0568-001

Lot #: 1605001

**Description:** Recombinant, tag-free, purified marburgvirus (MARV) 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.

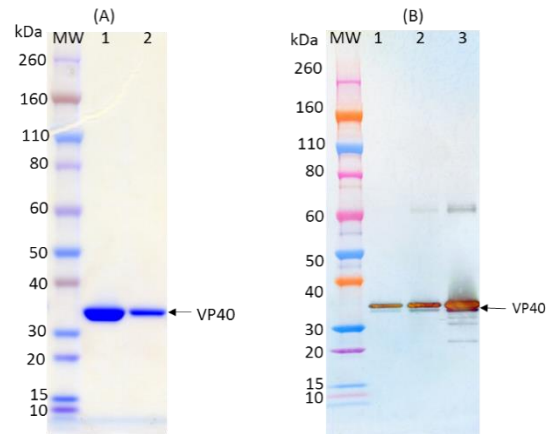
**Size:** 100 µg of protein is supplied in HEPES buffer pH 7.5 containing sodium chloride, 5% glycerol and 0.1% Triton-X, at a concentration of **0.407 mg/mL**. The theoretical molecular weight of the protein is ~35 kDa.

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

### 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](http://www.ibtbioservices.com) for more details.*

### SDS-PAGE & Western Blot Detection:



(A) SDS-PAGE and stain demonstrating 5 µg and 1 µg (lanes 1-2) of MARV VP40 protein under denaturing and reducing conditions. MW denotes Novex® Sharp pre-stained protein markers. (B) Western blot detection of MARV VP40 at 50 ng, 100 ng, and 500 ng (lanes 1-3). MARV VP40 was detected using IBT's polyclonal antibody at 100 ng/mL (Cat. # 0303-001) and anti-rabbit IgG-HRP conjugate, followed by TMB membrane substrate.

### ELISA Data:

MARV VP40 ng/well	OD 650 nm
800.00	3.781
400.00	3.748
200.00	3.585
100.00	3.201
50.00	2.823
25.00	1.922
12.50	0.899
6.25	0.371
3.13	0.190
1.56	0.148
0.78	0.133

Plate was coated with MARV 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. OD<sub>650</sub> is reported.

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