21 Firstfield RD * Suite 100
Gaithersburg, MD 20878
877-411-2041
Services@ibtbioservices.com

# Recombinant Sudan virus VP40 matrix protein (SUDV VP40)

**Catalog #: 0569-001**

**Lot #: 1605002**

**Description:** Recombinant, tag-free, purified Sudan virus (SUDV) 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.

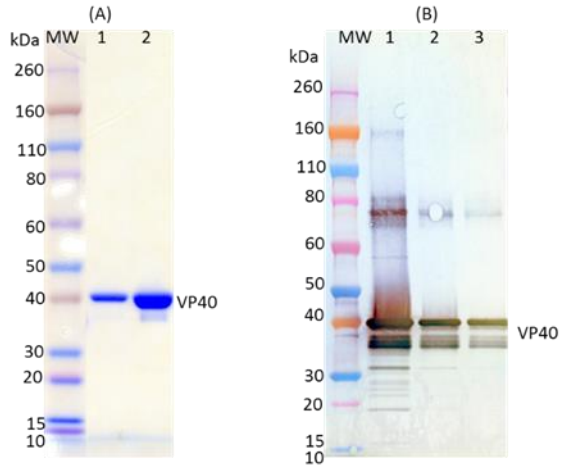
**Size:** 100 µg of protein is supplied in HEPES buffer pH 7.5 containing sodium chloride, 5% glycerol and 0.1% Triton-X, at a concentration of **0.330 mg/mL**. The theoretical molecular weight of the protein is ~35 kDa.

**Relevance:** Recombinant SUDV 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 for more details.*

**SDS-PAGE & Western Blot Detection:**




(A) SDS-PAGE and stain demonstrating 1 µg and 5 µg (lanes 1-2) of SUDV VP40 protein under denaturing and reducing conditions. MW denotes Novex® Sharp pre-stained protein markers. (B) Western blot detection of EBOV VP40 at 500 ng, 100 ng, and 50 ng (lanes 1-3). SUDV VP40 was detected using IBT's polyclonal antibody at 100 ng/mL (Cat. # 0302-001) and anti-rabbit IgG-HRP conjugate, followed by TMB membrane substrate.

**ELISA Data:**

| SUDV VP40 ng/well | OD 650 nm |
|---|---|
| 800.00 | 3.581 |
| 400.00 | 3.613 |
| 200.00 | 3.395 |
| 100.00 | 2.962 |
| 50.00 | 2.253 |
| 25.00 | 1.209 |
| 12.50 | 0.533 |
| 6.25 | 0.294 |
| 3.13 | 0.193 |
| 1.56 | 0.121 |
| 0.78 | 0.094 |

Plate was coated with SUDV 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. $OD_{650}$ is reported.