

Recombinant EBOV VP40

Catalog No: tcip3025



Available Sizes

Size: 100µg



Specifications

Application:

ELISA, WB

Research Area:

Virology

Form:

Frozen Liquid

Concentration:

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.

Recommended Dilution:

Western Blot: Assay-dependent dilution ELISA: Assay-dependent dilution

Purity / Grade:

Column chromatography

Storage Instruction:

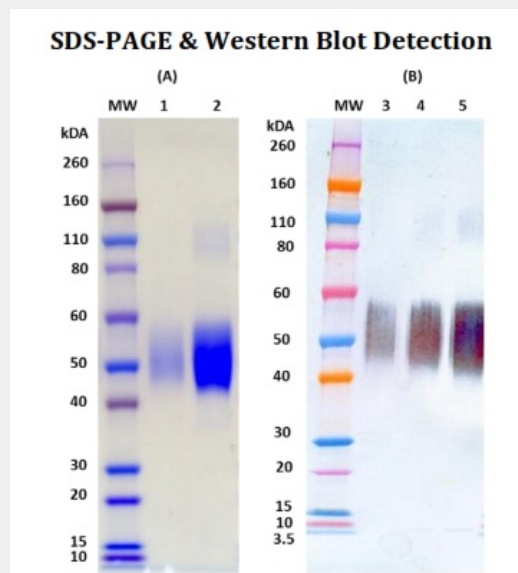
2-3 weeks at -20°C, -80°C long term

Relevance:

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

Product Description

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



The theoretical molecular weight of the protein is ~43 kDa. Because of the glycosylated nature of this protein, migration in an SDS-PAGE gel is slowed resulting in a broad, diffuse band representing differing glycosylation forms. (A) SDS-PAGE and stain demonstrating 1 ug, 5 ug (lane 1 and 2 respectively) of EBOV sGP protein under denaturing and reducing conditions. MW denotes Novex Sharp prestained protein markers. (B) Western blot detection of EBOV sGP at 50 ng, 100 ng, and 200 ng (lanes 3-5 respectively). EBOV sGP was detected using Taiclone's Rabbit anti-EBOV sGP polyclonal antibody at 0.1 g/mL and anti-rabbit IgG-HRP conjugate, followed by TMB substrate.

ELISA Data

| EBOV sGP (ng/well) | OD 650 nm |
|--------------------|-----------|
| 400.00 | 3.826 |
| 200.00 | 3.839 |
| 100.00 | 3.628 |
| 50.00 | 3.408 |
| 25.00 | 3.082 |
| 12.50 | 2.423 |
| 6.25 | 1.734 |
| 3.13 | 1.119 |
| 1.56 | 0.658 |
| 0.78 | 0.401 |
| 0.39 | 0.309 |
| 0.20 | 0.183 |

Plate was coated with EBOV sGP starting at 400 ng/well, serially diluted in DPBS. Washed plate was detected using one dilution of a Rabbit anti-EBOV sGP followed with anti-IgG HRP conjugate and TMB substrate. OD 650 is reported.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!