

Recombinant Sudan virus VP40 matrix protein

Cat. No. VP40-12S Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant, tag-free, purified Sudan virus (SUDV) matrix protein (VP40) is expressed in E. coli and the recombinant protein purified using FPLC.
Species	Sudan virus
Source	E.coli
Molecular Mass	The theoretical molecular weight of the protein is ~35 kDa.
Applications	Recombinant SUDV VP40 matrix protein provides a means as a control protein for immunoassays and a tool to enhance Filovirus research.
Storage	At -80 centigrade. It is recommended to dispense single-use aliquots and store aliquots at -80 centigrade to avoid multiple freeze/thaw cycles.
Concentration	0.833 mg/mL
Storage Buffer	100 µg of protein is supplied in HEPES buffer pH 7.5 containing sodium chloride, 5% glycerol and 0.1% Triton-X.

GENE INFORMATION

Gene Name	VP40 matrix protein [Sudan ebolavirus]
Official Symbol	VP40

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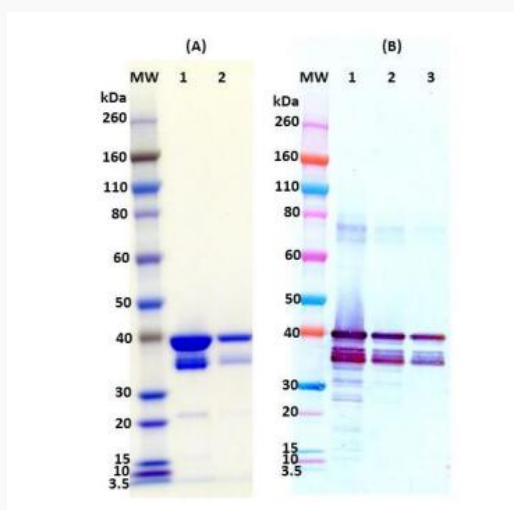
Synonyms VP40; matrix protein; most abundant protein in virion

Gene ID 3160775

Protein Refseq YP_138522

UniProt ID B0LPL6

SDS-PAGE



(A) SDS-PAGE and stain demonstrating 5 μ g and 1 μ g (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 SUDV VP40 at 500 ng, 100 ng, and 50 ng (lanes 1-3). SUDV VP40 was detected using polyclonal antibody at 100 ng/mL and anti-rabbit IgG-HRP conjugate, followed by TMB membrane substrate.

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ELISA

SUDV VP40 ng/well	OD 650 nm
800.00	3.421
400.00	3.538
200.00	3.370
100.00	3.174
50.00	2.727
25.00	2.278
12.50	1.791
6.25	1.202
3.13	0.623
1.56	0.463
0.78	0.279
0.39	0.178
Background Control	0.072

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