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Recombinant Lassa Virus Z protein

Catalog #: 0508-001

Lot #: 1606001

Description: Lassa virus Z protein is expressed in *E. coli* as a recombinant protein. The theoretical molecular weight of the protein is approximately 11 kDa.

Supplied: 100 µg is supplied in sodium phosphate buffer supplemented with 5% glycerol and 0.1% Triton X-100 at a concentration of **0.427 mg/mL**.

Endotoxin: 171.149 Endotoxin units/mg

Storage: -80°C

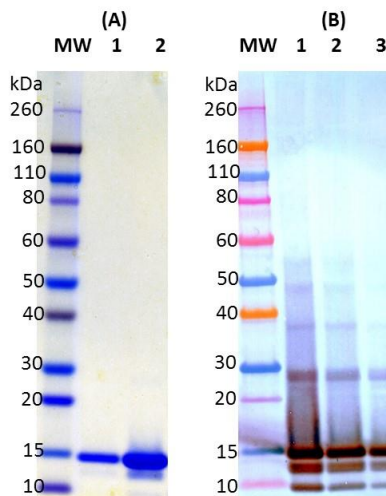
Relevance: Lassa fever is an acute viral haemorrhagic illness caused by Lassa virus, a member of the arenavirus family of viruses. Lassa virus is a membrane-bound RNA virus containing the glycoproteins (GP1 and GP2), the matrix protein (Z), the polymerase (L) and nucleoprotein (NP). Lassa Z matrix protein plays an integral role in virus particle release.

Recommended Dilutions:

ELISA: Assay-dependent dilution.

WB: Assay-dependent dilution; internal QC demonstrates detection of LASV Z protein using IBT's rabbit anti-LASV Z polyclonal antibody in Western blotting.

SDS-PAGE and Western Blot



(A) SDS-PAGE of LASV Z: 1 µg (lane 1) and 5 µg (lane 2). (B) Western blot detection of LASV Z at 100 ng, 50 ng and 25 ng (lanes 1-3), using IBT's rabbit anti-LASV Z polyclonal antibody (cat # 0307-002) at 0.1 µg/mL and an anti-rabbit IgG-HRP conjugate followed by substrate.

ELISA

Lassa Z (ng/well)	OD 650 nm
25.000	3.718
12.500	3.725
6.250	3.500
3.125	3.136
1.563	2.499
0.781	1.625
0.391	1.101
0.195	0.690
0.098	0.555
0.049	0.418
0.024	0.415
0.012	0.453

Plate was coated with LASV Z starting at 25 ng/well, serially diluted two-fold in DPBS. Washed plate was detected using 10 µg/mL of Rabbit anti-LASV Z pAb followed with anti-rabbit IgG HRP conjugate and TMB substrate. OD₆₅₀ is reported.

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

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