

# Datasheet



Mouse mAb to **Lassa Virus – GP1**  
Clone **EBS-I-302**  
Isotype **IgG1-κ**

## Source

A BALB/c mouse was immunized with gamma rays inactivated strain LASV.  
Fusion partner: Sp2/0.

## Specifications

Lassa virus is a member of the Arenaviridae and causes Lassa fever in predominantly West Afrika. The main reservoir is formed by local rodents. Up to half a million people are estimated to attract the disease yearly and mortality rates may reach as much as 50%. Viral proteins, coded within two ambisense RNA strands, include GP1, GP2, NP, polymerase and Z matrix protein. EBS-I-302 reacts with GP1, which is thought to bind to the host cell  $\alpha$ -dystroglycan receptor. The epitope is different from the epitope recognized by the GP1 antibody EBS-I-301.



**Figure 1:** Lassa Virus.  
Image Credit: CDC

## Species reactivity

Positive: (human and animals subject to infection with) Lassa virus.

## Applications

EBS-I-302 is excellent for immunohistology, immunofluorescence, immunoblotting, immunoprecipitation and ELISA.

ELISA	Frozen sections	Immunofluorescence	Lateral flow	Western blot
+	+	+	+	+

## Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide.

Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

## Dilution advice

- ELISA (solid phase: 0,1-100  $\mu$ g/ml; tracer: 0,001-100  $\mu$ g/ml for 30 min at RT).
- Immunoblotting (1-2  $\mu$ g/ml).
- Immunofluorescence (0,5-1,0  $\mu$ g/ml).
- Immunohistology (1-2  $\mu$ g/ml for 30 min at RT).
- Lateral flow (solid phase: 0,40  $\mu$ g per cm; tracer: 0,47  $\mu$ g per cm).

## Positive control

Cells, serum or tissues infected with Lassa virus.

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## References

- Branco L.M. et al. *Virology* **7**:279-298 (2010).
- Ruo S.L et al., *J. Gen. Virol.* **72**, 549-555 (1991).