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# Antibody Datasheet

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| **Product Name:** | Mouse anti Lassa Fever virus GP1 (HD7) |
| **Clone number:** | HD7-G5-H11-H6 |
| **Isotype:** | IgG1 Kappa |
| **Product code:** | MAB12360-100<br>MAB12360-500 |
| **Batch Number:** | M-NAC-9F |
| **Immunogen:** | A mixture of Lassa virus GP1 and GP2 proteins, produced in HEK293 cells and available from the Native Antigen Company here. |
| **Amount:** | 100µg<br>500µg |
| **Concentration:** | 1.0 mg/ml |
| **Buffer:** | Phosphate Buffered Saline pH7.4 |
| **Preservative:** | None present. 0.2µm filtered. |
| **Fusion partners:** | Spleen cells from immunised Balb/c mice were fused with cells from the SP2/0-Ag14 myeloma cell line. |
| **Purification:** | Antibody was purified from hybridoma cell culture supernatant by affinity chromatography on Protein G |
| **Specificity:** | This antibody is specific for Lassa Fever virus glycoprotein GP1 in western blot and ELISA and shows no cross-reactivity with GP2 (see data below). |

**Applications:** WB, ELISA

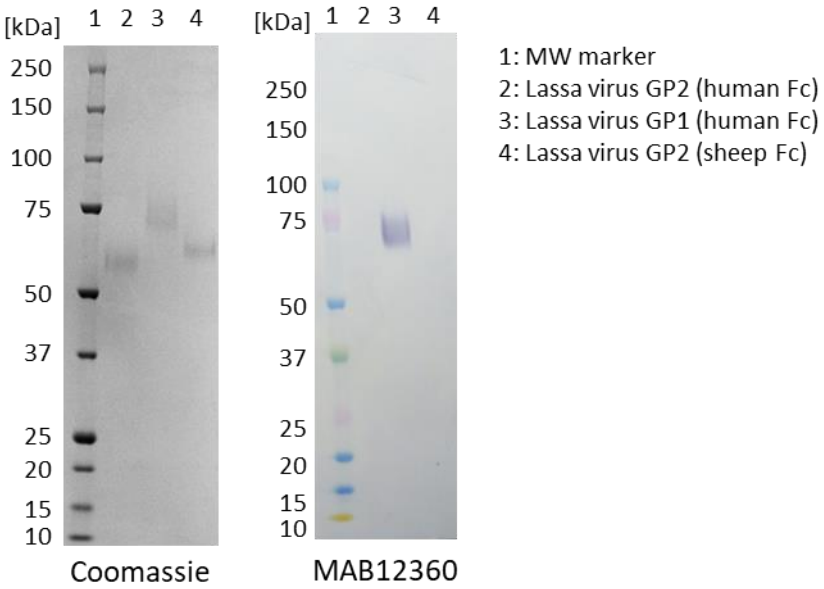
This antibody did not show neutralizing activity (pMN assay) against the panel of Lassa pseudoviruses tested below:

1. G3010-SLE-2013.Lassa_virus.S.KM821882 (Lineage IV)
2. ISTH1096-NIG-2012.Lassa_virus.S.KM821939 (Lineage II)
3. GA391.Nigeria.1977.Lassa_virus.X52400 (Lineage III)
4. AF181853_Lassa_virus_S_AF181853 (Lineage I, LP strain)
5. Komina_R16_Lassa_virus_S_KF478767 (Lineage V)
6. Josiah_Lassa_virus_S_NC_004296 (Lineage IV)

**Storage:** Store at +4$^0$C for up to one week, or at -20$^0$C for longer periods
For long term storage at +4$^0$C the addition of 0.09% w/v sodium azide is recommended.
The antibody is shipped at ambient temperature.
Avoid repeated freeze/thaw cycles.

## Western Blot

100ng of each antigen (Lassa virus GP2 (human Fc), GP1 (human Fc) and GP2 (sheep Fc)) was used for SDS-PAGE, in reduced form. Proteins were transferred using Transblot for 7 minutes at 25V. 5% dry milk in PBS-T was used as blocking buffer and dilution buffer for antibodies. Primary antibody and goat anti-mouse-IgG-HRP secondary antibody was used at 1:1000. All steps were carried out for 1h at room temperature with gentle rocking. KPL Membrane TMB was used for detection. Development time 1 minute.



**ELISA**

**Plate coating:** All antigens coated at 0.5µg/ml in DPBS overnight at 2-8C.
**Plate blocking:** Plate washed 1 X 300µl/well TBS + 0.1% Tween20, blocked 300µl/well DPBS+1% BSA for an hour.
**Detection antibody:** Antibody diluted to 1.0µg/ml and 0.01µgml in DPBS + 1% BSA + 0.05% T20. Added at 100µl/well, incubated shaken 2h room temperature. Plate washed 3 X 300µl/well TBS-T wash buffer
**Secondary antibody:** Biorad goat anti-mouse IgG-HRP (103005) diluted 1 in 2500 in DPBS/1%BSA/0.05%T20, added at 100µl/well, incubated shaken 1h room temperature. Plate washed 6X 300µl/well TBS-T wash buffer
**Detection:** Europa TMB substrate added at 100µl/well and the plate developed for 1.5 min. static on the bench
**Stop:** Reaction stopped with 100µl/well 1M HCL and the plate was read within 5 min. at 405nm.