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Antibody Datasheet

Product Name:	Mouse anti Lassa Fever virus GP1 (HA6)
Clone number:	HA6-1-D10-E10-G2
Isotype:	IgG1 Kappa
Product code:	MAB12361-100 MAB12361-500
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 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

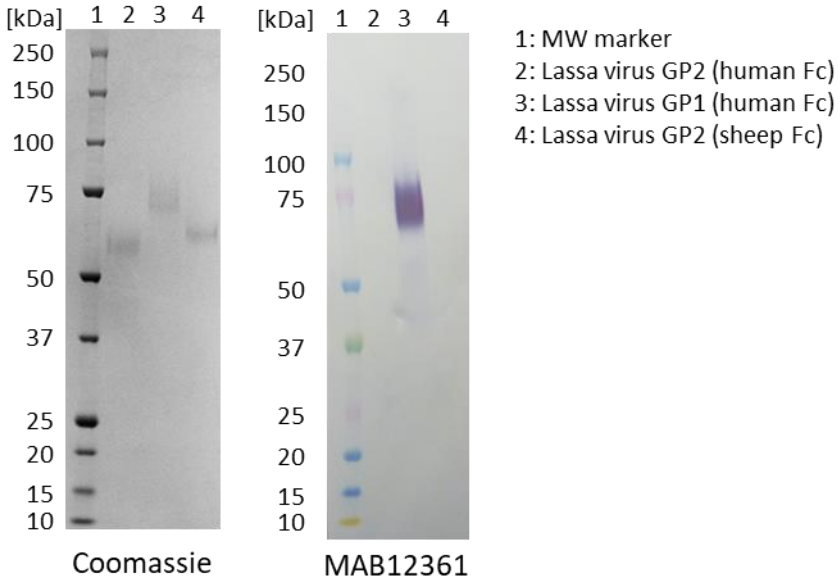
This antibody did not show neutralizing activity (pMN assay) against the panel of Lassa pseudoviruses tested below:

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.