

Anti-VP40 Antibody [B6-A8]

HA601066



Product Type:	Mouse monoclonal IgG1, primary antibodies
Applications:	ELISA
Clone number:	B6-A8

Description: Ebola virus VP40 Antibody is a high quality monoclonal Ebola virus VP40 antibody (also designated Ebola virus VP40 antibody) suitable for the detection of the Ebola virus VP40 protein of Ebola virus origin. Ebola virus VP40 Antibody (FE18) is available as the non-conjugated anti-Ebola virus VP40 antibody. Ebola virus is an enveloped, negative-stranded RNA virus which belongs to the family Filoviridae and has a distinctive morphology similar only to that of Marburg virus, but apparently has no antigenic characteristics of Marburg virus. Ebola virus is one of at least 18 known viruses capable of causing the viral hemorrhagic fever syndrome. Its genome is a nonsegmented RNA strand with seven structural proteins which include the major nucleoprotein (NP), glycoprotein (GP) and L protein, in addition to four other proteins: VP40, VPX, VP30 and VP24. All the proteins are encoded by monocistronic mRNA transcripts complementary to virion RNA. Only GP, the major protein of the surface spikes, is glycosylated.

Immunogen: Synthetic peptide within Zaire ebolavirus VP40 aa 260-300.

Database links: SwissProt: X5H596 Zaire ebolavirus | Q05128 Zaire ebolavirus | Q77DJ6 Zaire ebolavirus | Q2PDK5 Zaire ebolavirus

Recommended Dilutions:
ELISA 1:10,000.

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein G affinity purified.

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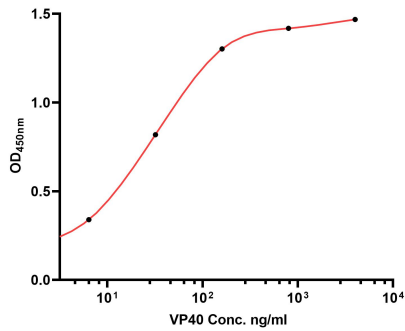
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Images

Fig1: VP40 Antibody (HA601066) in indirect ELISA.

Indirect ELISA analysis of VP40 was performed by coating wells of a 96-well plate with 50 μ l per well of VP40 antigen diluted in carbonate/bicarbonate buffer, at a concentration of 1 μ g/mL overnight at 4°C. Wells of the plate were washed, blocked with StartingBlock blocking buffer, and incubated with 50 μ l per well of a mouse VP40 monoclonal antibody starting at a concentration of 20 μ g/mL and serially diluting it to a concentration of 1.28 ng/mL for 2 hours at room temperature. The plate was washed and incubated with 50 μ l per well of an HRP-conjugated goat anti-mouse IgG secondary antibody at a dilution of 1:15,000 for one hour at room temperature. Detection was performed using an Ultra TMB Substrate for 5 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Pleet ML. et. al. Ebola VP40 in Exosomes Can Cause Immune Cell Dysfunction. Front Microbiol. 2016 Nov

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