

Human anti-EBOV GP mAb (KZ52)

Catalog #: 0260-001

Description:

Protein A purified neutralizing human monoclonal antibody reactive to EBOV GP (Parren *et al*). The antibody detects recombinant EBOV GP without the transmembrane region (EBOV rGPΔTM) expressed in both mammalian and insect cells.

Immunogen/ Target:

The human antibody KZ52 was derived from a human convalescent patient who survived an Ebola virus (EBOV) infection. KZ52 is directed towards the EBOV glycoprotein (GP).

Formulation & Storage: Supplied in buffer containing Histidine, sodium chloride and sucrose with no preservatives added. **Store at** +4°C for 2-3 weeks; -80°C for long-term

Notes & Usage Guidelines:

Clonality/Isotype: Monoclonal; IgG1

Host: Human

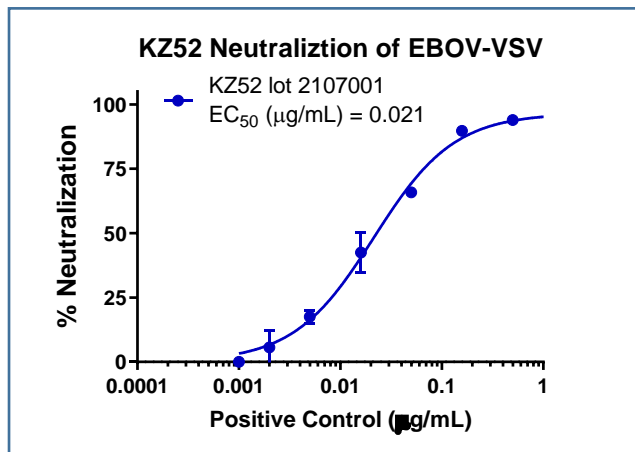
ELISA: Assay-dependent dilution

WB: Assay-dependent dilution

Applications

Neutralization Data:

Antibody was incubated with vesicular stomatitis viruses (VSV) pseudotyped with Ebola GP and expressing Luciferase (EBOV-VSV) for one hour prior to infectivity on Vero cell monolayers. Infectivity was determined 24 hours post infection by quantification of luciferase signal.



ELISA Data:

Recombinant GP proteins were diluted to 1 µg/mL and virus-like particles (VLPs) expressing GP proteins were diluted to 10 µg/mL in PBS for plate coating. Anti-EBOV GP antibody (KZ52) was serially diluted semi-log from 10 µg/mL and incubated on the coated plates. Washed plates were detected with anti-human IgG-HRP conjugate and TMB substrate. OD₆₅₀ is reported below.

KZ52 µg/mL	rGPΔTM 1 µg/mL			VLP @ 10 µg/mL		
	EBOV	SUDV	MARV	EBOV	SUDV	MARV
10.0000	3.092	0.362	0.070	3.034	0.374	0.064
3.1623	3.068	0.152	0.066	2.984	0.152	0.063
1.0000	3.032	0.096	0.072	2.871	0.093	0.061
0.3162	3.055	0.202	0.085	2.764	0.075	0.073
0.1000	2.909	0.287	0.074	2.349	0.079	0.068
0.0316	2.623	0.166	0.080	1.457	0.073	0.072
0.0100	1.838	0.115	0.106	0.601	0.066	0.070
0.0032	0.969	0.082	0.133	0.271	0.070	0.070
0.0010	0.412	0.081	0.118	0.128	0.108	0.078
0.0003	0.184	0.094	0.087	0.093	0.087	0.077
0.0001	0.107	0.081	0.08	0.076	0.096	0.091

Certificate of analysis:

A hardcopy of datasheet is sent along with the products. Please refer to it for detailed information. For older lots, refer to the applicable certificate of analysis that may be requested at products@ibtbioservices.com.

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