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Mouse anti-EBOV VP40 mAb (AE11)

Catalog #: 0201-018

Lot #: 1502003

Description: Purified mouse monoclonal antibody reactive to Ebola virus (EBOV) matrix protein (VP40). The antibody detects EBOV VP40 in virus-like particles (VLP) and EBOV recombinant VP40 (rVP40) by ELISA.

Supplied: 100 µg is supplied in PBS at a concentration of **0.826 mg/mL**.

Clonality: Monoclonal of the IgG_{2a} isotype

Relevance: The antibody can be used for detection of EBOV VP40 matrix protein.

Recommended Dilutions:

ELISA: Assay-dependent dilution.

WB: Not recommended for Western Blot because the antibody recognizes conformational epitope.

Storage: 2-3 weeks +4°C, -20°C long term. Avoid multiple freeze thaws.

Cross Reactivity: Cross-reactivity was observed against Sudan Virus (SUDV) VP40 in VLP and SUDV rVP40 protein. No cross reactivity was observed with Marburg Virus (MARV) VP40 in MARV VLPs or MARV rVP40.

Related Products:

IBT provides a wide array of anti-filovirus specific antibodies, recombinant proteins and other infectious disease reagents. Please see our website, www.ibtbioservices.com for more details.

ELISA Data:

Anti-EBOV VP40 mAb AE11 (µg/mL)	EBOV VLP @ 10 µg/mL	SUDV VLP @ 10 µg/mL	MARV VLP @ 10 µg/mL
10.0000	3.409	3.648	0.151
3.1623	3.425	3.617	0.075
1.0000	3.303	3.543	0.077
0.3162	3.086	3.564	0.080
0.1000	2.524	3.259	0.062
0.0316	1.560	2.659	0.063
0.0100	0.766	1.550	0.068
0.0032	0.341	0.752	0.067
0.0010	0.150	0.349	0.068
0.0003	0.091	0.169	0.069
0.0001	0.075	0.101	0.060
0.0000	0.059	0.071	0.062
OD 650 nm			

Anti-EBOV VP40 mAb AE11 (µg/mL)	EBOV rVP40 @ 3 µg/mL	SUDV rVP40 @ 3 µg/mL	MARV rVP40 @ 3 µg/mL
10.0000	3.708	3.551	0.081
3.1623	3.666	3.610	0.071
1.0000	3.562	3.490	0.067
0.3162	3.514	3.369	0.070
0.1000	3.198	2.947	0.063
0.0316	2.418	2.124	0.066
0.0100	1.394	1.163	0.065
0.0032	0.640	0.498	0.063
0.0010	0.261	0.260	0.067
0.0003	0.133	0.119	0.072
0.0001	0.080	0.169	0.068
0.0000	0.068	0.105	0.083
OD 650 nm			

VLPs and rVP40 proteins were diluted to 10 µg/mL and 3 µg/mL, respectively, in PBS for plate coating. Anti-EBOV VP40 antibody (AE11) was serially diluted semi-log from 10 µg/mL and incubated on the coated plates. Washed plates were detected with anti-mouse IgG-HRP conjugate and TMB substrate. OD₆₅₀ is reported above. The anti-EBOV VP40 antibody (AE11) strongly reacted to EBOV VLP (cat # 0550-001) and rVP40 protein (cat# 0564-001). The antibody cross-reacted with SUDV VP40 in VLP and rVP40 protein (IBT internal lots).

Intended for research use only, not for human, therapeutic, or diagnostic applications.

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